



A CELEBRATION OF WEST POINT AUTHORS

8 October 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 January and June 2019. This event highlights published and ongoing research into character and character development.

Panelists

- Dr. Marjorie H. Carrol and Dr. Lisa M. Korenman, Department of Behavioral Sciences & Leadership
 - Comparison of Male and Female Rape Myth Scripts
- COL Todd Woodruff and Dr. Eric Lin, Department of Behavioral Sciences & Leadership
 - Research on Peers Correcting Peers
- Dr. Michael Matthews, Kristina Schmid Callina, Brian Burkhard, Dr. Hillary S. Schaefer, CPT Jeremiah Powers, Elise D. Murray, Dr. Gerald Kobylski (G5), COL Diane M. Ryan, Dennis Kelly (G5), and Richard M. Lerner.
 - 5 year longitudinal study “Character in Context: Character Structure among United States Military Academy Cadets.”

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 Eastern Sociological Society meetings, Boston, Massachusetts, March 14-17, 2019.

Allen, Melanie (CDT, '19), CDT Arianna Spirtos '19, CDT Karimi Nyamu '19, Dr. Marjorie H. Carroll, and Dr. Lisa M. Korenman. “The Effect That Labeling Trauma as Sexual Assault or as Rape.” Poster presented at the Annual Meeting of the Eastern Psychological Association, New York City, New York, March 1, 2019.

Apodaca, Julianne R. (MAJ). “Impact Government Policies Have on Family Intentions Among Dual Military Couples.” Presented at the Eastern Sociological Society Annual Meeting, Boston, Massachusetts, March 14-17, 2019.

Boyce, Michael W., MAJ Charles P. Rowan (former BS&L), Paul L. Shorter (ARL Human Research and Engineering Directorate), Jason D. Moss (ARL HRED), Charles R. Amburn (ARL HRED), Christopher J. Garneau (ARL HRED), and Robert A. Sottolare (ARL HRED). “The Impact of Surface Projection on Military Tactics Comprehension.” *Military Psychology* 31:1 (January 2019): 45–59. doi:10.1080/08995605.2018.1529487.

Condly, Steven (Dr.), MAJ John Morrow, and LTC Lolita Burrell. “Periodic Development Reviews: A Tool to Monitor Leader Development.” Presented at the Annual Meeting of the Eastern Psychological Association, New York City, New York, March 1, 2019.

Dawson, Jessica (MAJ). “Shall Not Be Infringed: The Sacralization of the Second Amendment.” Presented at the Eastern Sociological Society Annual Meeting, Boston, Massachusetts, March 14-17, 2019.

Dibble, John (MAJ). “Teaching of Psychology Symposium.” Discussant at the Annual Meeting of the Eastern Psychological Association, New York City, New York, March 1, 2019.

*Duffy, Jennifer, Leah Wickersham-Fish, Linnea Rademaker, and **Dr. Elizabeth Wetzler.** “Using collaborative autoethnography to explore online doctoral mentoring: Finding empathy in mentor/protégé relationships.” *American Journal of Qualitative Research* 2.1 (June 2018): 57-76.

Ender, Morten G. (Dr.), and COL Remi Hajjar. “Teaching war from a sociological perspective: The West Point exemplar.” *Res Militaris: The European Journal of Military Studies* 9:1 (Winter/Spring 2019).

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

- Ender, Morten G. (Dr.).** Review of *Growing Up in Armyville: Canada's Military Families during the Afghanistan Mission*, by Deborah Harrison and Patrizia Albanese. *Res Militaris: The European Journal of Military Studies* 9:1 (Winter/Spring 2019).
- Ender, Morten G. (Dr.).** "Army Wives, War, and Media Coverage." Presented at the 114th Annual Meeting of the American Sociological Association, New York City, New York, August 12, 2019.
- Ender, Morten G. (Dr.).** "Generations and National Defense." Invited presentation for the "Millennial Reserve Officers: New Challenges – New Skills – New Roles" Summer Symposium Conference for the CIOR (La Confédération Interalliée des Officiers de Réserve) SYMPOSIUM of the Interallied Confederation of Reserve Officers 2019, Tallinn, Estonia, August 7, 2019.
- Ender, Morten G. (Dr.).** "Sociology at West Point." Invited presentation at the RAND Corporation, Arlington, Virginia, April 26, 2019.
- Groysberg, Boris, Whitney Johnson, and **Dr. Eric Lin.** "What to Do When Industry Disruption Threatens Your Career." *MIT Sloan Management Review* 60:3 (Spring 2019): 57-65.
- Hajjar, Remi (COL).** "A Life Journey that led to Developing Inclusive Leaders of Character at West Point for a Diverse U.S. Army, Nation, and World." Presented at the Eastern Sociological Society Annual Meeting, Boston, Massachusetts, March 14-17, 2019.
- Judd, Thomas (Dr., AARS), COL Andrew Hagemaster, and Dr. Elizabeth Velilla (FLICR).** "West Point Leader Development: A Theory-Based System." Presented at the Annual Meeting of the Eastern Psychological Association, New York City, New York, March 1, 2019.
- Korenman, Lisa M. (Dr.), Dr. Elizabeth L. Wetzler, Dr. Marjorie H. Carroll, and Dr. Elizabeth V. Velilla (FLICR).** "Is It in Your Face?: Exploring the Effects of Sexual Dimorphism on Perception of Leadership Potential." *Military Psychology* 31:2 (February 6, 2019): 107-116. <https://www.tandfonline.com/doi/abs/10.1080/08995605.2018.1556555>.
- Morell, Arianna (MAJ), Dr. Elizabeth L. Wetzler, and Dr. Lisa M. Korenman.** "Using Virtual Battlespace Gaming Simulations in the Classroom: Type of Post-Simulation Reflection Matters." Presented at the Annual Meeting of the Eastern Psychological Association, New York City, New York, March 1, 2019.
- Plenge, Chad (CPT), LTC Jordon Swain, and Dr. James Cornwell.** "Put on the spot." *The CASE Journal* 15:4 (March 30, 2019): 267-278. <https://doi.org/10.1108/TCJ-12-2018-0125>.
- Putz, Kristin (CDT, '19), CDT MacKenzie Ferguson '19, CDT Jessica Ambrose '19, CDT Henri Noel-Alexandre '19, CDT Tom Jansen '19, CDT David Santos '19, and Dr. Lisa M. Korenman.** "The Effects of Post Event Information on Memory for Sexual Assault." Poster presented at the Annual Meeting of the Eastern Psychological Association, New York City, New York, March 1, 2019.
- 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 (February 2019): 172–176.
- Welch-Baker, Tiffany A. (CDT, '19), MAJ Jessica Dawson.** "Racialized Code Words Used in White Publication." Presented at the Eastern Sociological Society Annual Meeting, Boston, Massachusetts, March 14-17, 2019.
- Wetzler, Elizabeth Leigh (Dr.).** "How Using a Restricted Grading Range Distorts GPAs and Disproportionately Penalizes Low-Performing Students." *Frontiers in Education* (March 29, 2019).
- Wetzler, Elizabeth L. (Dr.).** "Teaching of Psychology Symposium." Chair at the Annual Meeting of the Eastern Psychological Association, New York City, New York, March 1, 2019.
- Yang, Alexander Minsoo (CDT, '21), Dr. Morten G. Ender.** "Moderating Effect of Civil-Military Status on the Relationship between Perceptions of Environmental Degradation and National Security." Presented at the Eastern Sociological Society Annual Meeting, Boston, Massachusetts, March 14-17, 2019.
- Yarnell, Angela (MAJ), CPT John Dibble, and Dr. Tracie Caccavale.** "General Psychology for Leaders: Using Psychology to Promote Self-Awareness and Understanding of Others." Presented at the Annual Meeting of the Eastern Psychological Association, New York City, New York, March 1, 2019.
- Yarnell, Angela (MAJ), Erin S. Barry, and Neil E. Grunberg.** "Psychological Well-Being." In *Fundamentals of Military Medicine*, 363–380. Textbooks of Military Medicine. Fort Sam Houston, Texas: Office of The Surgeon General, 2019.
- Yarnell, Angela (MAJ), Cindy Dullea, and Neil E. Grunberg.** "Military Communication." In *Fundamentals of Military Medicine*, 165–178. Textbooks of Military Medicine. Fort Sam Houston, Texas: Office of The Surgeon General, 2019.
- Yarnell, Angela (MAJ), Matthew L. Lopresti, Omotola O. Lanlokun, and Thomas J. Balkin.** "Sleep, Rest, and Recovery." In *Fundamentals of Military Medicine*, 381–392. Textbooks of Military Medicine. Fort Sam Houston, Texas: Office of The Surgeon General, 2019.

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

Armstrong, Matthew (LTC), LTC Corey James, and LTC April D. Miller.

“Comparison of Global, Stochastic Optimization Algorithms Using Toy Problems and Fitting Multi-Parameter Models to Kinetic Rheological Data.” Presented at the SIAM Conference on Applications of Dynamical Systems, Snowbird, Utah, May 2019.

Armstrong, Matthew (LTC), CDT Joshua P. White '19, CDT Jesse W. Hudgins '19, LTC Geoffrey R. Bull, LTC Corey M. James, Dr. Dawn E. Riegner, LTC April D. Miller, and Dr. Andrew Biaglow.

“Developing Chemical Engineering Acumen by Brewing Kicking Mule Beer.” *Chemical Engineering Education* 53: 2 (Spring 2019): 101–111.

Bahaghighat, H. Daniel (LTC), Chris E. Freye, Derrick V. Gough, and Robert E. Synovec. “Comprehensive Two-Dimensional Gas Chromatography and Time-of-Flight Mass Spectrometry Detection with a 50 Ms Modulation Period.” *Journal of Chromatography A* 1583 (January 2019): 117–123. <https://doi.org/10.1016/j.chroma.2018.11.027>.

Bahaghighat, H. Daniel (LTC), Chris E. Freye, and Robert E. Synovec. “Recent Advances in Modulator Technology for Comprehensive Two Dimensional Gas Chromatography.” *TrAC Trends in Analytical Chemistry* 113 (April 2019): 379–391. <https://doi.org/10.1016/j.trac.2018.04.016>.

Bull, Geoffrey R. (LTC), MAJ Nate Kaminski (PANE), and CDT Kenji Onaka '19. “Analysis of Synthetic Nuclear Melt Glass (Urban) Using X-Ray Fluoroscopy.” Poster presented at the American Chemical Society National Meeting and Expo, Orlando, Florida, April 30, 2019.

———. “Development of Synthetic Nuclear Melt Glass Representative of an Urban, Post-Detonation Environment for Forensic Analysis.” Poster presented at the American Chemical Society National Meeting and Expo, Orlando, Florida, April 30, 2019.

Bull, Geoffrey R. (LTC), Jason O. Oakley, and Michael L. Corradini. “Effects of Bubble Injection on Heat Transfer from a Volumetrically Heated Sulfate Salt Solution.” *Nuclear Science and Engineering* 193:3 (March 2019): 299–313. <https://doi.org/10.1080/00295639.2018.1514195>.

Burpo, F. John (COL). “DNA Biotemplated 3-D Copper Nanowire Composite Films.” Presented at the 257th American Chemical Society National Meeting & Exposition, Orlando, Florida, April 2019.

Burpo, Fred J. (COL), CDT Jesse L. Palmer '19, Dr. Alexander N. Mitropoulos (former D/C&LS), Dr. Enoch A. Nagelli, Lauren A. Morris, **CDT Madeline Y. Ryu '19, and Dr. J. Kenneth Wickiser.** “Synthesis Method for Cellulose Nanofiber Biotemplated Palladium Composite Aerogels.” *Journal of Visualized Experiments: JoVE* 147 (May 2019): e59176. <https://doi.org/10.3791/59176>.

Burpo, F. John (COL), Dr. Enoch A. Nagelli, CDT Anchor R. Losch '20, CDT Jack Bui '19, CDT Felita Zhang '22, CDT Veronica Lucian '22, CDT Brittany Aikin '21, and CDT Epiphannie Onuoma Donkeng '22. “Salt-Templated Porous Metal Materials.” Oral presentation at the American Chemical Society Northeast Regional Meeting, Saratoga Springs, New York, June 2019.

Burpo, F. John (COL), Dr. Enoch A. Nagelli, Dr. Alexander N. Mitropoulos (former D/C&LS), Stephen F. Bartolucci (US Army Armaments Research, Development, and Engineering Center), Joshua P. McClure (US Army Research Laboratory-Sensors and Electron Devices Directorate), David R. Baker (ARL-SEDD), **CDT Anchor R. Losch '20,** and Deryn D. Chu (ARL-SEDD). “Salt-Templated Platinum–Palladium Porous Macrobeam Synthesis.” *MRS Communications* 9:1 (March 2019): 280–287. <https://doi.org/10.1557/mrc.2018.217>.

Burpo, F. John (COL), CDT Madeline Ryu '19, Dr. Enoch A. Nagelli, and CDT Epiphannie Onuoma Donkeng '22. “Gelatin-Cellulose Nanofiber Biotemplated Platinum Nanowire Porous Fibers.” Presented at the 257th American Chemical Society National Meeting & Exposition, Orlando, Florida, April 2019.

Caridha, Diana (Walter Reed Army Institute of Research- WRAIR), Mark Hickman, Lisa Xie (WRAIR), Franklyn Ngundam (WRAIR), **MAJ Erin Milner,** Amanda Schenk (WRAIR), Kirk Butler (WRAIR), Dylan Nugent (WRAIR), Patricia Lee (WRAIR), Norma Roncal (WRAIR), Susan Leed (WRAIR), Eve Hosford (WRAIR), et al. “Updating the Modified Thompson Test by Using Whole-Body Bioluminescence Imaging to Replace Traditional Efficacy Testing in Experimental Models of Murine Malaria.” *Malaria Journal* 18:1 (February 2019): 38. <https://doi.org/10.1186/s12936-019-2661-x>.

Cave, John W. (Dr.), Dr. J. Kenneth Wickiser, and Dr. Alexander N. Mitropoulos (former D/C&LS). “Progress in the Development of Olfactory-Based Bioelectronic Chemosensors.” *Biosensors and Bioelectronics* 123 (January 1, 2019): 211–222. <https://doi.org/10.1016/j.bios.2018.08.063>.

Fish, Caryl, Ashley Mahoney, Sean Garrett-Roe, Alexander Grushow, Brandon Fetterly, Sally S. Hunnicutt, Michael P. Garoutte, **Dr. Eileen Kowalski,** et al. “Development of the POGIL Activity Clearinghouse (PAC).” Presented at the 257th American Chemical Society National Meeting & Exposition, Orlando, Florida, April 2019.

- Gong, Allen (CDT, '20), Dr. Enoch Nagelli, COL F. John Burpo, and Dr. Kamil Woronowicz.** "High Quantum Yield Conversion of Infrared Photons into Charge Separation Utilizing Photosynthetic Protein Complex on Graphene Oxide Electrode." Presented at the Eastern Regional Photosynthesis Conference (ERPC), Woods Hole, Massachusetts, May 2019.
- Gough, Derrick V., **LTC H. Daniel Bahaghighat**, and Robert E. Synovec. "Column Selection Approach to Achieve a High Peak Capacity in Comprehensive Three-Dimensional Gas Chromatography." *Talanta* 195 (April 2019): 822–829. <https://doi.org/10.1016/j.talanta.2018.12.007>.
- Griffin, J., **LTC Jason C. Barnhill, and MAJ Michael A. Washington.** "An Unusual Wound Infection Due to *Acinetobacter Junii* on the Island of Oahu: A Case Report." *Journal of Special Operations Medicine* 19:1 (Spring 2019): 14–15.
- Hamilton, Alexander (CDT, '20), Dr. Kamil Woronowicz, and Dr. Enoch Nagelli.** "Layer-by-Layer 3D Construction of Bacterial Photoreaction Centers with Graphene Oxide for Enhanced Photocurrent Generation in Organic Photovoltaics." Presented at the Eastern Regional Photosynthesis Conference (ERPC), Woods Hole, Massachusetts, May 2019.
- Hummel, Stephen, **COL F. John Burpo**, and James Bonner. "Profit-Minded Suppliers: Convergence of IED Facilitation and WMD Proliferation Networks for Non-State Actors." *CTC Sentinel* 12:2 (February 2019): 12–16.
- Jaffett, Victor A. (LTC)**, Alok Nerurkar, Xufeng Cao, Ilia A. Guzei, and Jennifer E. Golden. "Telescoped Synthesis of C3-Functionalized (E)-Arylamidines Using Ugi–Mumm and Regiospecific Quinazolinone Rearrangements." *Organic & Biomolecular Chemistry* 17:12 (March 2019): 3118–3128. <https://doi.org/10.1039/C9OB00073A>.
- Kennedy, George (Dr.), Michael Y. Min '18, Jacob F. Fitzgerald '17, Michael T. Nguyen '18 (GENE)**, S.I. Schultz, **Madison T. Crum '17**, J.A. Starke, **Dr. Michael A. Butkus (GENE)**, D.D. Bowman, and **Dr. Michael P. Labare.** "Inactivation of the Bacterial Pathogens *Staphylococcus Pseudintermedius* and *Acinetobacter Baumannii* by Butanoic Acid." *Journal of Applied Microbiology* 126:3 (March 1, 2019): 752–763. <https://doi.org/10.1111/jam.14180>.
- Limbocker, Ryan (Dr.)**, Sean Chia, Francesco S. Ruggeri, Michele Perni, Roberta Cascella, Gabriella T. Heller, Georg Meisl, et al. "Trodsuquimine Enhances A β 42 Aggregation but Suppresses Its Toxicity by Displacing Oligomers from Cell Membranes." *Nature Communications* 10:1 (January 2019): 225. <https://doi.org/10.1038/s41467-018-07699-5>.
- Mentis, Elizabeth (Dr.)**, **LTC Andrew R. Pfluger, Dr. April D. Miller, and Dr. Enoch Nagelli.** "Integration of a Water Quality Laboratory Sequence into a Core Chemistry Course." Paper presented at the 126th Annual American Society for Engineering Education (ASEE) Conference, Tampa, Florida, June 2019.
- Miterko, Lauren N., Joshua J. White, Tao Lin, Amanda M. Brown, **Dr. Kevin J. O'Donovan**, and Roy V. Sillitoe. "Persistent Motor Dysfunction despite Homeostatic Rescue of Cerebellar Morphogenesis in the Car8 Waddles Mutant Mouse." *Neural Development* 14:1 (March 2019): 6. <https://doi.org/10.1186/s13064-019-0130-4>.
- Mitropoulos, Alexander N. (Dr., former C&LS), **COL F. John Burpo, LTC Chi K. Nguyen, Dr. Enoch A. Nagelli, CDT Madeline Y. Ryu '19, CDT Jenny Wang '20, CDT R. Kenneth Sims '19, Dr. Kamil Woronowicz, and Dr. J. Kenneth Wickiser.** "Noble Metal Composite Porous Silk Fibroin Aerogel Fibers." *Materials* 12:6 (January 2019): 894. <https://doi.org/10.3390/ma12060894>.
- Ohmura, Jacqueline F., **COL F. John Burpo**, Chamille J. Lescott, Alan Ransil, Youngmin Yoon, William C. Records, and Angela M. Belcher. "Highly Adjustable 3D Nano-Architectures and Chemistries via Assembled 1D Biological Templates." *Nanoscale* 11:3 (January 17, 2019): 1091–1102. <https://doi.org/10.1039/C8NR04864A>.
- Pfluger, Andrew (LTC)**, Jason Coontz, Veronika Zhiteneva, Teigan Gulliver, Lisa Cherry, Liam Cavanaugh, and Linda Figueroa. "Anaerobic Digestion and Biogas Beneficial Use at Municipal Wastewater Treatment Facilities in Colorado: A Case Study Examining Barriers to Widespread Implementation." *Journal of Cleaner Production* 206 (January 1, 2019): 97–107. <https://doi.org/10.1016/j.jclepro.2018.09.161>.
- Poulin, Ross (CDT, '19), COL F. John Burpo, Dr. Kamil Woronowicz, and Dr. Enoch Nagelli.** "Chemical Crosslinking Graphene Oxide with Deoxyribonucleic Acid and Protein Reaction Centers to Create Aerogels for Use in Biosensors." Presented at the Eastern Regional Photosynthesis Conference (ERPC), Woods Hole, Massachusetts, May 2019.
- Riegner, Dawn (Dr.)**, **CDT Jess Lewis ('19), and CDT Haven Bethune ('20).** "Synthesis and Characterization of Electrospun Polymer Fibers Doped with Quantum Dots." Poster presented at the 257th American Chemical Society National Meeting & Exposition, Orlando, Florida, April 2019.
- Schubert, Sara L. (KACH), and **Dr. Vanessa R. Melanson.** "Prevalence of Lyme Disease Attributable to Military Service at the USMA, West Point NY: FY2016–2018." *Military Medicine*, June 27, 2019, usz156. <https://doi.org/10.1093/milmed/usz156>.

Selverston, S., **Dr. Enoch Nagelli**, J. S. Wainright, and R. F. Savinell. "All-Iron Hybrid Flow Batteries with In-Tank Rebalancing." *Journal of The Electrochemical Society* 166:10 (May 2019): A1725–1731. <https://doi.org/10.1149/2.0281910jes>.

Soum, Veasna, Sooyoung Park, Albertus Ivan Brilian, Yunpyo Kim, **CDT Madeline Y. Ryu '19, Taler Brazell '17, COL F. John Burpo**, Kevin Kit Parker, Oh-Sun Kwon, and Kwanwoo Shin. "Inkjet-Printed Carbon Nanotubes for Fabricating a Spoof Fingerprint on Paper." *ACS Omega* 4:5 (May 2019): 8626–8631. <https://doi.org/10.1021/acsomega.9b00936>.

Takhampunya, Ratee, Achareeya Korkusol, Chalermopol Pongpichit, Komsan Yodin, Artharee Rungroj, Nitima Chanarat, Sommai Promsathaporn, Taweesak Monkanna, Sasikanya Thaloengsok, Bousaraporn Tippayachai, Naruemon Kumfao, Allen L. Richards and **LTC Silas A. Davidson**. "Metagenomic Approach to Characterizing Disease Epidemiology in a Disease-Endemic Environment in Northern Thailand." *Frontiers in Microbiology* 10 (February 26, 2019): 319. <https://doi.org/10.3389/fmicb.2019.00319>.

Ulrich, Natalie C., Thomas M. Spudich, and **Dr. Eileen M. Kowalski**. "Characterizing Students' Responses to Exam Questions on Equilibrium." Presented at the 2019 Gordon Research Conference on Chemistry Education Research & Practice, Lewiston, Maine, June 2019.

Weiss, Thomas (CDT, '19), CDT Julianne Meany '21, LTC Jason C. Barnhill, MAJ Jeremy Hershfield, MAJ Michael A. Washington, and Dr. Christopher Kovacs. "Preliminary Investigations into Phage-Antibiotic Combinations for Defeating Multiple Drug Resistant Bacteria." Oral presentation and poster presented at the American Society for Microbiology Biothreat Meeting, Arlington, Virginia, January 2019.

Whitfield, Daniel (CDT, '19), CDT Christopher Dao '20, CDT Jacqueline Hamrick '20, and LTC Jason C. Barnhill. "Interplay of Antibiotic Resistance and Biofilm Formation of *Acinetobacter Baumannii* Evaluated through in Vitro Experimentation and Microscopy." Poster presented at the American Society for Microbiology Biothreat Meeting, Arlington, Virginia, January 2019.

Woronowicz, Kamil (Dr.). "High Quantum Yield Conversion of Infrared Photons into Charge Separation Utilizing a Photosynthetic Protein Complex on a Graphene Oxide Electrode." Presented at the 36th Eastern Regional Photosynthesis Conference, Woods Hole, Massachusetts, May 5, 2019. <https://erpc2019.wixsite.com/erpc>.

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

Bellocchio, Andrew (LTC), COL Michael Benson, COL Bret Van Poppel, LTC Seth Norberg (former CME), and **CDT Ryan Benz '21**. "A Re-Envisioned Gas Turbine Laboratory for an Undergraduate Mechanical Engineering Program." Paper presented at the ASME International Gas Turbine Institute: Turbomachinery Technical Conference & Exposition, Phoenix, Arizona, June 2019.

Benson, Michael (COL). "Education - Military Leaders Panel." Panelist at the 2019 American Society of Thermal and Fluids Engineers (ASTFE) Conference, Las Vegas, Nevada, April 2019.

Benson, Michael (COL), C. Elkins, CDT Mattias Cooper '19, and COL Bret Van Poppel. "Magnetic Resonance Thermometry: An Emerging Three-Dimensional Temperature Diagnostic Technique." Paper presented at the ASME 2019 Summer Heat Transfer Conference, Bellevue, Washington, July 2019.

Benson, Michael (COL), Arnaud Ivanovsky (Ecole de Saint-Cyr), CDT Mattias Cooper '19, Dr. Gunnar Tamm, Dr. David Helmer, COL Bret Van Poppel, and CPT Briana Fisk. "Experimental Study of a Turbulent Impinging Jet in an Undergraduate Heat Transfer Laboratory." Paper presented at the 2019 American Society of Thermal and Fluids Engineers (ASTFE) Conference, Las Vegas, Nevada, April 14, 2019.

Benson, Michael (COL), COL Bret Van Poppel, Christopher Elkins, and Mark Owkes. "Three-Dimensional Velocity and Temperature Field Measurements of Internal and External Turbine Blade Features Using Magnetic Resonance Thermometry." *Journal of Turbomachinery* 141:7 (March 2019): 071011. <https://doi.org/10.1115/1.4043151>.

Brown, A., Erik Benavidez (Sandia), Michael Clemenson (Sandia), **COL Michael Benson**, and C. Elkins. "Contaminant Dispersion Validation Simulations for an Urban Inspired Scenario." Paper presented at the 2019 American Society of Thermal and Fluids Engineers (ASTFE) Conference, Las Vegas, Nevada, April 2019.

Brown, A., **Dr. Rebecca A. Zifchock**, M. Lehmann, J. Song, and H. Hillstrom. "Hip Muscle Response to a Fatiguing Run in Females with Iliotibial Band Syndrome." *Human Movement Science* 64 (April 2019): 181–190. <https://doi.org/10.1016/j.humov.2019.02.002>.

Drummond, Robert (CDT, '19), CDT Claudia Sun '19, CDT Andrew Valkenburg '19, Dr. Aaron Freidenberg, and LTC Jake Bruhl. "Computer Predictions of Tunnel Response to Blast." Paper presented at the ASCE Structures Congress, Orlando, Florida, April 24, 2019.

Fisk, Briana (CPT), COL Bret P. Van Poppel, COL Michael J. Benson, A. Peters, A. German, and Dr. Gunnar Tamm. “Undergraduate Internal Flow Convection Heat Transfer Laboratory.” Paper presented at the 2019 American Society of Thermal and Fluids Engineers (ASTFE) Conference, Las Vegas, Nevada, April 2019.

Flaherty, David (MAJ). “The Critical Pick: A Crane Rigging Demonstration.” Presented at the ASEE 126th Annual Conference and Exposition, Tampa, Florida, June 15-19, 2019.

Helton, Gary (William Beaumont Army Medical Center, El Paso, TX), Kenneth Cameron (KACH Sports PT Fellowship), **Dr. Rebecca Zifchock**, Erin Miller (KACH Sports PT Fellowship), Donald Goss (KACH Sports PT Fellowship), Jinsup Song, and Michael Neary (former KACH). “Association Between Running Shoe Characteristics and Lower Extremity Injuries in United States Military Academy Cadets.” Presented at the 66th Meeting of the American College of Sports Medicine, Orlando, Florida, May 31, 2019.

Helton, G.L., K.L. Cameron, **Dr. Rebecca Zifchock**, E.M. Miller, D.L. Goss, J. Song, and M.T. Neary. “Association Between Shoe Characteristics and Running Performance in the United States Military Academy Cadets.” American Physical Therapy Association Combined Sections Meeting, Washington, D.C., February 2019.

Hill, Aaron (COL), and Michael C. Campbell. “Improved learning Through In-Class Assessment.” Paper presented at the Structures Congress 2019: Blast, impact Loading, and Research and Education, Orlando, Florida, April 24-27, 2019. <https://doi.org/10.1061/9780784482247.019>

Klinkmueller, Kurt ('18), Anthony Wieck '18, Joshua Holt '18, Andrew Valentine '18, LTC James E. Bluman, Dr. Andrew Kopeikin, and Ekaterina Prosser (Natick). “Airborne Delivery of Unmanned Aerial Vehicles via Joint Precision Airdrop Systems.” Paper presented at the AIAA Scitech 2019 Forum, San Diego, California, January 2019. <https://doi.org/10.2514/6.2019-2285>.

Lance, Blake (Sandia), Alexander Brown (Sandia), Kevin Dowding (Sandia), Michael Clemenson (Sandia), Chris Elkins, and **LTC Michael Benson.** “Atmospheric Flow Validation for Contaminant Transport.” Presented at the ASME Verification and Validation Symposium, Las Vegas, Nevada, May 1, 2019.

Little, Jessie, Ashish Singh, **MAJ Tim Ashcraft,** and Claudia Durasiewicz. “Post-Stall Flow Control Using Nanosecond Pulse Driven Dielectric Barrier Discharge Plasma Actuators.” *Plasma Sources Science and Technology* 28:1 (January 2019): 014002. <https://doi.org/10.1088/1361-6595/aaf52f>.

McCoy, Brad C. (LTC), Rudolf Seracino, Gregory W. Lucier. “Rapid Restoration of Deteriorated Prestressed Concrete Bridges Using Mechanically Fastened Fiber Reinforced Polymer.” Presented at the ASCE Innovation Contest, ASCE Headquarters, Reston, Virginia, June 2019.

Melnyk, Richard (COL). “A Demonstration of Reliability and Certification Standards for Unmanned Aircraft System Control Links.” Paper presented at the AIAA Scitech 2019 Forum, San Diego, California, January 2019. <https://doi.org/10.2514/6.2019-1785>.

Miller, Matthew (MAJ), MAJ Jeffrey Rigney, MAJ Daniel Arnold, and MAJ David Flaherty. “The Effects of Transitioning an Undergraduate Mechanical Engineering Course from Shorter and More Frequent Class Periods to Longer and Fewer In-Class Sessions.” Presented at the ASEE 126th Annual Conference and Exposition, Tampa, Florida, June 15-19, 2019.

Novoselich, Brian (LTC), LTC Jakob Bruhl, Matthew Scheidt, Christina Willis, and Michael Sheppard. “ASEE Support to Student Veterans: Results of a 2018 ASEE Leadership Roundtable.” Presented at the ASEE 126th Annual Conference and Exposition, Tampa, Florida, June 15-19, 2019.

Pickell, William (CDT, '21), Dr. Andrew Kopeikin, Dr. Elizabeth Bristow, and LTC James Bluman. “Feasibility Study for a MEDEVAC Electric UAS Capability.” Presented at the 2019 International Conference on Unmanned Aircraft Systems (ICUAS'19), Amsterdam, The Netherlands, May 14-15, 2019.

Schindler, Jessica, Jonathan Kaplan, Clifford Hancock, Erika Hussey, **Dr. Rebecca Zifchock,** and John Ramsay. “Effects of a Loaded Ruck March of Isometric Muscle Strength Measured with a Novel HHD Fixation System.” Poster presented at the 66th Meeting of the American College of Sports Medicine, Orlando, Florida, June 2019.

Siegel, Noah ('18), Aaron Schlenker '18, Kevin Sullivan '18, Isaiah Valdez '18, Gregory Rodebaugh (ARDEC), Christopher Elkins, **COL Bret Van Poppel, and COL Michael Benson.** “Design and Analysis of a Spin Stabilized Projectile Using Magnetic Resonance Velocimetry.” Presented at the AIAA Scitech 2019 Forum, San Diego, California, January 2019.

Tamm, Gunnar (Dr.), M. Cooper, **COL Michael Benson, and COL Bret Van Poppel.** “Undergraduate Turbulent Impinging Jet Heat Transfer Laboratory.” Paper presented at the 2019 American Society of Thermal and Fluids Engineers (ASTFE) Conference, Las Vegas, Nevada, April 2019.

Zifchock, Rebecca (Dr.), Regina Parker '16, Willahelm Wan '16, Michael Neary, Jinsup Song, and Howard Hillstrom. “The Relationship Between Foot Arch Flexibility and Medial-Lateral Ground Reaction Force Distribution.” *Gait & Posture* 69 (March 2019): 46–49.

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

Andrews, Daniel (CDT, '19), CDT Jennifer Behn '19, CDT Danielle Jaksha '19, CDT Jinwon Seo '19, CDT Madeleine Schneider '19, CDT James Yoon '19, Dr. Suzanne J. Matthews, Rajeev Agrawal (ERDC), and COL Alexander Mentis. "Exploring RNNs for Analyzing Zeek HTTP Data." Presented at the 6th Annual Symposium on Hot Topics in the Science of Security (HoTSoS '19), Nashville, Tennessee, April 1-3, 2019.

Babbitt, Thomas (LTC), Dr. Charles Schooler, and Kyle King (NSA Fellow). "Punch Cards to Python: A Case Study of a CS0 Core Course." Paper presented at the 50th ACM Technical Symposium on Computer Science Education, Minneapolis, Minnesota, March 2019.

Baciu-Ureche, Ovidiu-Gabriel (CDT, '19), CDT Carlie Sleeman '19, CDT Karlee Scott '21, LTC William Moody (ACI), and Dr. Suzanne J. Matthews. "The Adventures of ScriptKitty: Teaching Middle School Students Cyber Awareness with Comics on the Raspberry Pi." Presented at the Student Research Competition, 50th ACM Technical Symposium on Computer Science Education (SIGCSE'19), Minneapolis, Minnesota, February 27, 2019.

Banks, Christian (CDT, '19), CDT Samuel Kim '19, CDT Michael Neposchlan '19, CDT Nicholas Velez '19, Dr. K. J. Duncan, Dr. John James, Dr. Aaron St. Leger, and CPT Daniel Hawthorne. "Blockchain for Power Grids." Presented at the IEEE SoutheastCon 2019, Huntsville, Alabama, April 11-14, 2019.

Blaine, Ray (LTC). "The Army's ICS and Its Defense." Presented at Hack the Capitol 2.0, Washington, D.C., May 15, 2019.

Bluman, J.E. (LTC), Dr. Aaron St. Leger, LTC Christopher M. Korpela. "Implementing a full state feedback laboratory exercise in an introductory undergraduate control system engineering course." Paper presented at the American Society for Engineering Education (ASEE) Annual Conference & Exposition, Tampa, Florida, June 2019.

Brunner, Ryan (CDT, '19), CDT Sang Oh '19, CDT Jesse Ramirez '19, CDT Paul Houck '19, MAJ Nathaniel Stickney, and LTC Ray Blaine. "Design of an Educational Cyber Range." Presented at the 6th Annual Symposium on Hot Topics in the Science of Security (HoTSoS '19), Nashville, Tennessee, April 1-3, 2019.

Curtin, Brian (CDT, '19), CDT Rachele David '19, CDT Emmet Dunham '19, CDT Cullen Johnson '19, CDT Nikhil Shyamkumar '19, LTC Thomas Babbitt, and Dr. Suzanne J. Matthews. "Designing a Raspberry Pi Sensor Network for Remote Observation of Wildlife." Paper presented at the 6th Annual Symposium on Hot Topics in the Science of Security (HoTSoS '19), Nashville, Tennessee, April 1-3, 2019.

Fritz, Jared (CDT, '19), MAJ Joseph Sagisi, Dr. John James, Dr. Aaron St Leger, Dr. Kyle King (NSA Visiting Professor), and Dr. Katherine Duncan. "Simulation of Man in the Middle Attack On Smart Grid Testbed." Presented at the IEEE SoutheastCon 2019, Huntsville, Alabama, April 11-14, 2019.

Ges, Nicholas (CDT, '20), CDT Will Anderson '20, and LTC Christopher Lowrance. "Layering Laser Rangefinder Points onto Images for Obstacle Avoidance by a Neural Network." Presented at the IEEE SoutheastCon 2019, Huntsville, Alabama, April 11-14, 2019.

Harvie, David P. (LTC), COL Tanya Estes, and Dr. Lisa Shay. "Know Your Role! Defining Faculty and External Stakeholder Roles in a Multidisciplinary Capstone Course." Paper presented at the American Society for Engineering Education (ASEE) Annual Conference & Exposition, Tampa, Florida, June 2019. <https://peer.asee.org/33038>.

James, John (Dr.). "Future OE Mission Command and Future OE Decision Cycles." *Army Futures Command G2 Mad Scientist Blog*, May 16, 2019. <https://madsicblog.tradoc.army.mil/145-future-oe-mission-command-and-future-oe-decision-cycles/>.

Larkin, Dominic (MAJ), and Dr. William Barry (DEP). "How Robots and Autonomous Weapon Systems Are Changing the Norms and Laws of War." Poster presented at the We Robot 2019, University of Miami School of Law, Coral Gables, Florida, April 2019. Winner Best Poster Award.

Lowrance, Christopher J. (LTC), and Adrian P. Lauf. "An Active and Incremental Learning Framework for the Online Prediction of Link Quality in Robot Networks." *Engineering Applications of Artificial Intelligence* 77 (January 1, 2019): 197–211. <https://doi.org/10.1016/j.engappai.2018.10.006>.

Matthews, Suzanne (Dr.) "Maximizing computing on minimal hardware." Invited Talk at Skidmore College, Saratoga Springs, New York, March 22, 2019

Morrell, Chris (LTC), Reese Moore, Joseph Tront, and Randolph Marchany. Process and System for Establishing a Moving Target Connection for Secure Communications in Client/Server Systems. United States Patent and Trademark Office 10,243,733, filed March 16, 2017, and issued March 26, 2019.

Popko, Gerald (CPT), Thomas Gaylord, and Chris Valenta. "Signal interactions between lidar scanners," Paper presented at SPIE Defense + Commercial Sensing, Laser Radar Technology and Applications XXIV, Baltimore, Maryland, May 2019. <https://doi.org/10.1117/12.2518228>

Popko, Gerald (CPT), Yijun Bao, Thomas Gaylord, and Chris Valenta. "Beam Path Intersections between Two Coplanar Lidar Scanners," *Optical Engineering* 58:3 (March 2019): 033103. <http://doi.org/10.1117/1.OE.58.3.033103>

Rizzo, Lou, **Dr. Kate Duncan**, James Zunino, and John Federici. "Validation of Laser Power Beaming Applications with Enlarged Laser Beam Diameters Minimizing Hazardous Operation." Paper presented at the IEEE SoutheastCon 2019, Huntsville, Alabama, May 12, 2019.

Shay, Lisa (Dr.), **COL Tanya Estes**, and **LTC David P. Harvie**. "Reflection and Metacognition in Capstone Design." Paper presented at American Society for Engineering Education (ASEE) Annual Conference & Exposition, Tampa, Florida, June 2019. <https://peer.asee.org/33229>.

St. Leger, Aaron (Dr.), "A Multidisciplinary Undergraduate Alternative Energy Engineering Course," *IEEE Transactions on Education* 62:1 (February 2019): 34-39.

Sturzinger, Eric (MAJ), **CDT Bradley Whitehall '19**, **CDT James Tyler '19**, and **LTC Christopher Lowrance**. "A Machine Learning Framework for Building Passive Surveillance Photogrammetry Models." Paper presented at the IEEE SoutheastCon 2019, Huntsville, Alabama, April 11-14, 2019.

Worth, Michael (CDT, '20), **CDT Dalton Stahl '19**, Michael Finch, Andre Slonopas, Sina Simingalam, Joseph Reynolds, Antonio Huerta, **CPT Dan Konopa**, and **LTC Kirk Ingold**. "Development of Laser Countermeasure Simulation Tools with Scattering." Paper presented at the 2019 Military Sensing Symposium Active E-O Systems & Electro-Optical & Infrared Countermeasures (IRCM) Conference, Los Angeles, California, May 7, 2019.

Yim, Sang (MAJ), **MAJ Eric Sturzinger**, and **LTC Christopher Lowrance**. "Effects of YouTube Video as Pre-Lecture Preparation." Paper presented at the American Society for Engineering Education (ASEE) Annual Conference & Exposition, Tampa, Florida, June 2019.

Zhu, Danny (MAJ), Eric Whiting, Sawyer Campbell, Pingjuan Werner, and Douglas Werner. "Inverse Design of Three-Dimensional Nanoantennas for Metasurface Applications." Paper presented at the 2019 International Applied Computational Electromagnetics Society (ACES) Symposium, Miami, Florida, April 14, 2019.

Department of English and Philosophy COL David Harper, Department Head

Barnes, David (COL). "Unit Temperance and the Haditha Case." In *Military Virtues*, edited by Michael Skerker, David Whetham, and Don Carrick. Issues in Military Ethics. Havant: Howgate Publishing Limited, May 2019.

Finn, Stephen (Dr., CTE). "Ignorance and Intransigence: Using the 'Knowledge Illusion' to Encourage Open-Mindedness." Presented at the Annual Lilly Conference on College and University Teaching, Bethesda, Maryland, June 30, 2019.

Gearon, Liam F., and **MAJ Scott Parsons**. "Research Ethics in the Securitised University." *Journal of Academic Ethics* 17:1 (March 1, 2019): 73-93. <https://doi.org/10.1007/s10805-018-9317-2>.

Samet, Elizabeth D. (Dr.). "Elizabeth Samet on Ulysses S. Grant." Presented at the 92Y: Leadership Talks with Gen. (Ret.) David H. Petraeus, New York City, New York, January 15, 2019.

Department of Foreign Languages COL Gregory Ebner, Department Head

Amell, Amaya. "Slavery in Written and Unwritten Literature." Presented at the Northeast Modern Language Association, Washington, D.C., March 21, 2019.

Ao, Qun (Dr.), and Weijia Huang. *Learning Chinese Language and Culture: Intermediate Chinese Textbook*. Vols. 1 & 2. Hong Kong: Chinese University Press, May 2019.

Chao, Fang-yi (Dr.). "Advanced Chinese L2 Pronoun Production." Presented at the Chinese Language Teachers Association Annual Conference, Seattle, Washington, April 5, 2019.

Dobrunoff, Olga (Dr.). "Russian as a Global Language." Roundtable participant at the Russian as a Global Language Conference, Vienna International Centre (VIC) of the United Nations, Vienna, Austria, May 10, 2019.

Foster, Michael. "It Takes a Village: Breaking Down Barriers in Teaching African American Literature." Presented at the Northeast Modern Language Association, Washington, D.C., March 21, 2019.

Gray, Caro (MAJ). “The Army Language Program: Case Study of the Training Efficacy for the OPI.” Presented at the Southern Conference on Language Teaching, Myrtle Beach, South Carolina, March 21, 2019.

Gregory, E. John (COL). “Using a Critical Discourse Approach to Teach Culture, Society, History, and Politics.” Presented at the Chinese Language Teachers Association (CLTA) Annual Conference, Seattle, Washington, April 6, 2019.

***Gurrola, George (MAJ).** “China-Latin America Arms Sales: Antagonizing the United States in the Western Hemisphere?” *Military Review* 98:4 (July-August 2018): 123–132.

Gurrola, George (MAJ), and CPT William Sack. “Using the United States Military Academy’s Department of Foreign Language to Win in a Complex World.” Presented at the American Association of Teachers in Spanish and Portuguese (AATSP) Conference, San Diego, California, July 8-11, 2019.

Hood, Charles (LTC), and **MAJ George Gurrola.** “Wanna Be a General’s Aide? Here’s how (and what you can learn if not selected).” *Junior Officer* (blog), June 5, 2019.
<https://juniorofficer.army.mil/wanna-be-a-generals-aide/>

Hughes, Haning (USAFA), Yuan Fangyuan (USNA), and **COL E. John Gregory.** “Comprehending China: An Exploration of Language, Civilization, and Culture.” Presented at the Chinese Language Teachers Association Annual Conference, Seattle, Washington, April 5, 2019.

Irani-Tehrani, Amir (Dr.), and Dr. John Pendergast. “Nowruz as a Primer in Central Asian History and Culture.” Invited Presentation at the Harriman Institute, Columbia University, New York City, New York, April 25, 2019.

Lara, María del Rosario. “Lo Liminoide y Elementos Rituales En La Marcha Del Día Internacional de Las Mujeres.” *Viceversa Magazine*, May 2, 2019, sec. Actualidad, Opinión, Política. <https://www.viceversa-mag.com/lo-liminoide-y-elementos-rituales-en-la-marcha-del-dia-internacional-de-las-mujeres/>.

Lara, María del Rosario. “Esa No Era Yo.” *Viceversa Magazine*, February 18, 2019, sec. Escritura Creativa. <https://www.viceversa-mag.com/esa-no-era-yo-parte-i/>.

Maggin, Sherry (Dr.). “#Santillana #soldierscholar: The Use of the Catalogue in Medieval Spanish Praise Poetry.” Presented at the Southeastern Coastal Conference for Languages and Literatures (SECCLL) Annual Conference 2019, Georgia Tech Savannah, Savannah, Georgia, April 11-12, 2019.

Maggin, Sherry (Dr.). “Flash Fiction and Facebook: Collaboration and Creative Writing in the L2.” Presented at the 2019 International Association for Language Learning Technology (IALLT) Conference, University of Oregon, Eugene, Oregon, June 19-22, 2019.

***Pendergast, John (Dr.).** “Review of *Sergei Prokofiev’s Alexander Nevsky*, by Kevin Bartig.” *Slavic and East European Journal* 62.4 (Winter 2018).

Praud, Julia (Dr.). “Gaël Faye: Musical Intersections in the Novel, *Petit Pays*.” Presented at the 20th and 21st Century French and Francophone Studies Colloquium, Oklahoma City, Oklahoma, March 13-17, 2019.

Praud, Julia (Dr.). “Assia Djebar: Le Luxe, Le Voile, La Mère.” Presented at the International Colloquium: La représentation du luxe en littérature et la question du genre, Royal Military College, Kingston, Ontario, Canada, May 23, 2019.

***Tonnerre, Olivier (Dr.).** “‘Faut-Il Nécessairement Que La Beauté s’ignore Pour Ne Rien Perdre de Son Éclat?’: Le Goût et La Grâce Dans Le Piccinino de George Sand.” *Orbis Linguarum* 50 (2018): 361–371.

***Tonnerre, Olivier (Dr.).** “‘En Attendant La Mort, Il Me Restait Le Journal Des Dix-Neuviémistes’: Houellebecq Sur Les Pas de Huysmans.” *Roman 20-50* no. 66 (December 2018): 91–104.

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

Baker, Patrick J. (Dr.), Ralph E.J. Boerner, and Roger C. Wood. “Hatchling Behavior and Overwintering.” In *Ecology and Conservation of the Diamond-Backed Terrapin*, edited by Willem M. Roosenburg and Victor S. Kennedy. Johns Hopkins University Press, 2019.

Bier, Peter V. (MAJ), M. S. McPheters, LTC Benjamin M. Wallen, and LTC William C. Wright. “A Geospatial Information Science Analysis of Soil Lead Levels at West Point, New York.” Paper presented at the Soil Science Society of America International Soils Meeting, San Diego, California, January 7, 2019. <https://scisoc.confex.com/scisoc/2019sssa/meetingapp.cgi/Session/18581>.

Dacunto, Phil (COL), and Dr. Michael Butkus. “Location, Location, Location: The Value of Disciplinary Adjacency in Enhancing Environmental Engineering Programs.” Presented at the American Society for Engineering Education (ASEE) National Conference, Tampa, Florida, June 16, 2019.

*Dixon, P. Grady, and **Dr. Adam J. Kalkstein**. “Where Are Weather-Suicide Associations Valid? An Examination of Nine US Counties with Varying Seasonality.” *International Journal of Biometeorology* 62:5 (May 2018): 685–697. <https://doi.org/10.1007/s00484-016-1265-1>.

Fleming, Steven D., Ryan McAlinden, **Dr. Matt S. O’Banion, COL Christopher Oxendine, LTC William Wright**, and Ian Irmischer (USAF). “Rapid Terrain Generation for Geovisualization, Simulation, Mission Rehearsal, and Operations.” *United States Geospatial Intelligence Foundation’s 2019 State and Future of GeoINT Report*, January 2019, 21–24.

Kalkstein, Adam J. (Dr.). “Defining Climate Change: What to Expect in a Warmer World.” In *The Environment-Conflict Nexus: Climate Change and the Emergent National Security Landscape*, edited by Francis Galgano, 1st ed., 47–58. Advances in Military Geosciences. Cham, Switzerland: Springer, 2019.

***Kimball, Mindy (LTC), CPT Charles Ouellette**, and CDT Abigail Carter (Seattle University ROTC). “Student-Generated Animated GIFs as a Study Tool for Rock and Mineral Identification.” Presented at the Geological Society of America annual conference (GSA 2018), Indianapolis, Indiana, November 6, 2018.

***Kimball, Mindy (LTC), CDT Matthew Panner ‘20, CPT Nathaniel Sheehan, LTC Christopher Fuhrman, and Kimberly Quell**. “Introducing Geophysics and Remote Sensing Methods with Surprising Results.” Presented at the Geological Society of America annual conference (GSA 2018), Indianapolis, Indiana, November 4, 2018.

Leshchinsky, Ben, Michael J. Olsen, Curran Mohny, **Dr. Matt O’Banion**, Michael Bunn, Jonathan Allan, and Reilly McClung. “Quantifying the Sensitivity of Progressive Landslide Movements to Failure Geometry, Undercutting Processes and Hydrological Changes.” *Journal of Geophysical Research: Earth Surface* 124: 2 (February 2019): 616–638. <https://doi.org/10.1029/2018JF004833>.

Lohman, Andrew D. (COL). “East Africa in World War I: A Geographic Analysis.” In *The Environment-Conflict Nexus: Climate Change and the Emergent National Security Landscape*, edited by Francis Galgano, 1st ed., 119–138. Advances in Military Geosciences. Cham, Switzerland: Springer, 2019.

Murray, Kyle R. (MAJ), and CPT Nathaniel P. Sheehan. “The Impact of Periodic Low Stakes Testing on Environmental Engineering Education.” Presented at the 2019 ASEE Zone 1 Conference, Niagara Falls, New York, April 11, 2019.

Murray, Kyle R. (MAJ), LTC Benjamin M. Wallen, MAJ Luke T. Plante, Kimberly P. Quell, and Dr. Michael Butkus. “Beer Brewing and the Environmental Engineer: ‘Tapping’ into Experiential Learning.” Presented at the American Society for Engineering Education National Conference, Tampa, Florida, June 16, 2019.

***O’Banion, Matt (Dr.)**, Olsen Michael J., Parrish Christopher E., and Bailey Michael. “Interactive Visualization of 3D Coordinate Uncertainties in Terrestrial Laser-Scanning Point Clouds Using OpenGL Shader Language.” *Journal of Surveying Engineering* 145:1 (February 1, 2018): 04018012. [https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000267](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000267).

***O’Banion, Matthew (Dr.)**, M. J. Olsen, C. E. Parrish, M. Bailey, and **LTC William C. Wright**. “Improve Your Terrestrial Laser Scanning Planning and Execution: Visualize Uncertainty.” Presented at the Trimble Dimensions User Conference, Las Vegas, Nevada, November 5, 2018.

*———. “Interactive Visualization of 3D Coordinate Uncertainties in Terrestrial Laser Scanning Point Clouds.” Presented at the AGU Fall Meeting, Washington, D.C., December 10, 2018. Abstract 446891.

***O’Banion, Matthew (Dr.)**, and Olsen Michael J. “Efficient Planning and Acquisition of Terrestrial Laser Scanning-Derived Digital Elevation Models: Proof of Concept Study.” *Journal of Surveying Engineering* 145:1 (February 1, 2018): 06018003. [https://doi.org/10.1061/\(ASCE\)SU.1943-5428.0000265](https://doi.org/10.1061/(ASCE)SU.1943-5428.0000265).

***Panner, Matthew (CDT, ‘20), CPT Nathaniel Sheehan, LTC Mindy Kimball**, and CDT Abigail Carter (Seattle University ROTC). “What’s Old Is New Again: Balloon Mapping as an Alternative to UAVs in Field Mapping.” Presented at the Geological Society of America annual conference (GSA 2018), Indianapolis, Indiana, November 6, 2018.

Read, Mark R. (COL). “Climate and the Syrian Civil War.” In *The Environment-Conflict Nexus: Climate Change and the Emergent National Security Landscape*, edited by Francis Galgano, 1st ed., 167–176. Advances in Military Geosciences. Cham, Switzerland: Springer, 2019.

***Richmond, Amy K. (Dr.)**. “Urban Informality and Vulnerability: A Case Study in Kampala, Uganda.” Presented at the International Conference on Urban Studies: “Sustainable Urbanism and Local Governance, Strasbourg, France, October 2018.

———. “Water, Land, and Governance: Environmental Security in Dense Urban Areas in Sub-Saharan Africa.” In *The Environment-Conflict Nexus: Climate Change and the Emergent National Security Landscape*, edited by Francis Galgano, 1st ed., 91–102. Advances in Military Geosciences. Cham, Switzerland: Springer, 2019.

Richmond, Amy K. (Dr.), and Francis Galgano. “The 1994 Rwandan Genocide.” In *The Environment–Conflict Nexus: Climate Change and the Emergent National Security Landscape*, edited by Francis Galgano, 1st ed., 155–66. Advances in Military Geosciences. Cham, Switzerland: Springer, 2019.

Wallen, Benjamin (LTC), CPT Nathaniel Sheehan, MAJ Luke Plante, MAJ Erick Martinez, and Jeffrey Starke. “Long-Term Impact on Environmental Attitudes and Knowledge Assessed over Three Semesters of an Environmental Engineering Sequence.” Presented at the American Society for Engineering Education National Conference, Tampa, Florida, June 16, 2019.

***Weaver, Elizabeth A. (LTC),** and Korine N. Kolivras. “Investigating the Relationship Between Climate and Valley Fever (Coccidioidomycosis).” *EcoHealth* 15:4 (December 1, 2018): 840–852. <https://doi.org/10.1007/s10393-018-1375-9>.

***Wildermuth, Grace, MAJ John Dzwonczyk,** and Kathy Braiser. “Chapter 7 - The Role of Multi-State River Basin Commissions in Shale Gas Governance Systems: A Comparative Analysis of the Susquehanna and Delaware River Basin Commissions in the Marcellus Shale Region.” In *Governing Shale Gas Development, Citizen Participation and Decision Making in the US, Canada, Australia and Europe, 1st Edition*, edited by John Whitton, Matthew Cotton, Ioan M. Charnley-Parry, and Kathy Brasier. Routledge Studies in Energy Policy. New York: Routledge, 2018.

Department of History

COL Gail Yoshitani, Department Head

Askew, Mark (MAJ). “War Must Be Answered with War: An Evaluation of the Strategic Effectiveness of Spanish Population Relocation During the Cuban War for Independence.” Paper presented at the Society for Military History, Columbus, Ohio, May 9, 2019.

Campbell, Makonen (CPT). “Public Policy and Its Effects on African American Communities in Charlotte, N.C. from 1947 until 1977.” Presented at the Collegium for African American Research’s 13th International Conference, Orlando, Florida, February 30, 2019.

Collins, Devon (MAJ). “Captivity of the Mind: World War I and the Repatriation of British POWs.” Paper presented at the Society for Military History, Columbus, Ohio, May 9, 2019.

Drohan, Brian (MAJ). “Toward a Military History of the United Nations.” Paper presented at the Sites of Military History Workshop, London School of Economics, London, UK, May 4, 2019.

***Frey, David (Dr.).** “Která Cesta Vede Ke Křesťanskému Nacionalismu? Maďarská Kinematografie Válečného Období v Evropě Novém Řádu” (Which Path to Christian Nationalism? Wartime Hungarian Cinema in New Order Europe).” *Illuminace Journal for Film Theory, History, and Aesthetics* 30:4 (2018): 61–87.

Geheran, Michael (Dr.). “Preparing for the Unforeseen: Leadership Lessons from the Rwandan Genocide.” Paper presented at Frontiers of Prevention II, SUNY Binghamton, April 5, 2019.

Geheran, Michael (Dr.). “Review of *The First World War and German National Identity: The Dual Alliance at War*, by Jan Vermeiren.” *Central European History* 52:2 (June 2019): 357–359.

Gibby, Bryan (COL). “Young Scholars Panel: Memory, Motivation, and Perception.” Panel Chair and Commenter presented at the Society for Military History, Columbus, Ohio, May 9, 2019.

Granger, Scott (PROF). “Young Scholars Panel: The Mosaic of the Vietnam War: American Advisors, Vietnamese Military, and Vietnamese Citizens Analyzed Through Oral History.” Panel Commenter presented at the Society for Military History, Columbus, Ohio, May 9, 2019.

Hooton, Laura (Dr.). “Little Liberia and the International Community Welfare League: African Americans Fighting White Supremacy from Mexico in the Aftermath of the Tulsa Race Riot.” Presented at the Collegium for African American Research’s 13th International Conference, Orlando, Florida, February 30, 2019.

Krueger, David (MAJ). “The Red Cross, Daughters of the American Revolution, and the Origins of the Army Nurse Corps in the Spanish-American War.” *Journal of Military History* 83:2 (April 2019): 409–434.

Merkel, Lauren (MAJ). “Operation Provide Comfort — Shi’a Need Not Apply.” Paper presented at the Society for Military History, Columbus, Ohio, May 9, 2019.

Rafuse, Ethan (Dr.). “War in the American South.” Panel Chair and Commenter at the Society for Military History, Columbus, Ohio, May 9, 2019.

Rogers, Clifford J. (Dr.). “A Note on Chandos Herald at the Battle of Nájera (1367).” *The Medieval Chronicle* 12 (March 2019): 227–237.

Rogers, Clifford J. (Dr.). “The evolution of cannon design - Bigger, stronger, faster.” *Medieval Warfare Special: The Rise of the Gun* (2019): 44–50.

Rogers, Cliff (Dr.). “Book Talk on ‘The West Point History of the Civil War.’” Presented at The Field Library, Peekskill, New York, March 21, 2019.

Rogers, Cliff (Dr.). “Gunpowder Artillery in Europe, 1326–1500: Innovation and Impact.” In *Technology, Violence, and War: Essays in Honor of Dr. John F. Guilmartin, Jr.*, edited by Robert S. Ehlers, Sarah K. Douglas, and Daniel P.M. Curzon, 125:37–71. History of Warfare. Boston, Massachusetts: BRILL, 2019.

Rogers, Clifford J. (Dr.), Kelly DeVries, and John France, eds., *The Journal of Medieval Military History*, vol. 17, May 2019.

Sculley, Seanegan (LTC). “We Will Not Be Coerced: Courts-Martial and Punishment in the Continental Army.” Paper presented at the Society for Military History, Columbus, Ohio, May 9, 2019.

Siry, David (LTC). “Young Scholars Panel: The Mosaic of the Vietnam War: American Advisors, Vietnamese Military, and Vietnamese Citizens Analyzed Through Oral History.” Panel Chair at the Society for Military History, Columbus, Ohio, May 9, 2019.

Stapleton, John (Dr.). “Partisan Warfare, Spanish Collapse, and the Emergence of an Anglo-Dutch Army in the Low Countries, 1689-1692.” Paper presented at the Society for Military History, Columbus, Ohio, May 9, 2019.

Watson, Samuel (Dr.). “James Wilkinson, the U.S. Army, and the Spanish Borderlands.” Paper presented at the Texas State Historical Association, Corpus Christi, Texas, March 1, 2019.

Watson, Samuel (Dr.). “Relating to Others: Occupation, Liberation, and War.” Panel Chair and Commenter presented at the Society for Military History, Columbus, Ohio, May 9, 2019.

Wigton, Jared (MAJ). “All the King’s Men: ROTC, Berkeley, and the Decline of the Citizen-Soldier, 1962-1971.” Paper presented at the Society for Military History, Columbus, Ohio, May 9, 2019.

Yoshitani, Gail (COL). “War, Defense, & the Economy.” Panel Chair and Commenter at the Society for Military History, Columbus, Ohio, May 9, 2019.

Department of Law COL David Wallace, Department Head

Goldstein, Robert. “Equality Deferred: A Litany of Discrimination.” Guest lecture at Bard College, Annandale-on-Hudson, New York, February 4, 2019.

Lawless, Robert (CPT). “AI in Warfare.” Presented at the *Artificial Intelligence and Human Rights* conference, Stanford Artificial Intelligence and Law Society, Stanford Law School, California, May 4, 2019.

Reeves, Shane (COL), and MAJ Ronald Alcala. “Leadership in Law, Business, and National Security.” Panel participants at the George Washington University Law School, Washington, D.C., January 23, 2019.

Reeves, Shane (COL). “The Importance of Grounding the Law of Armed Conflict in Practice and Operational Realities.” Key note lecture at the University of California Berkeley Law School, California, January 31, 2019.

———. “Cyber-Attacks against Critical Infrastructure during Armed Conflict: A Need for Heightened Protections.” Paper presented at the War in Cities and the Law of Armed Conflict Conference, Brigham Young University Law School, Salt Lake City, Utah, February 13, 2019.

Reeves, Shane (COL), LTC Winston Williams, Professor Sean Watts (ACI), and CPT Rob Lawless. “Precautions: Principles, Practice, and Protections.” Panel participants at the United States Army Judge Advocate General’s Legal Center and School in Charlottesville, Virginia, May 6-7, 2019.

Wallace, David (COL), Amy McCarthy, J.D., & LTC Mark Visger, “Peeling Back the Onion of Cyber Espionage after Tallinn 2.0,” *Maryland Law Review* 78:2 (2nd quarter 2019): 205-246.

Wallace, David (COL), “Cyber Warfare and International Law: Regulating the Bits, Bytes, and Bombs in the Age of Digital Conflict” Presented to graduate students at Princeton University, April 17, 2019.

*Westbrook Mack, E. Corrie and **COL Shane Reeves,** “Tethering the Law of Armed Conflict to Operational Practice: “Organized Armed Group” Membership in the Age of ISIS.” *Berkeley Journal of International Law* 36:3 (2018) 334-361.

Department of Mathematical Sciences COL Tina Hartley, Department Head

- Adams, Bryan (MAJ).** “Determining Mathematically Based Thresholds from Wearable Sensors: Insights from NHANES Accelerometer Data.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.
- Adams, Bryan (MAJ), MAJ Dusty Turner, and MAJ Andrew Plucker.** “Academic Apps: Teaching with Technology to Motivate Instantaneous Rates of Change.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.
- Allen, Brian (Dr.).** “A Case Study of the Noordin Terrorist Network.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.
- Allen, Brian (Dr.).** “Using Geometric Evolution Equations to Show Stability in Mathematical Relativity.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.
- Allen, Brian (Dr.),** Lisandra Hernandez-Vazquez, Davide Parise, Alec Payne, and Shengwen Wang. “Warped Tori with Almost Non-Negative Scalar Curvature.” *Geometriae Dedicata* 200:1 (June 2019): 153-171. <https://doi.org/10.1007/s10711-018-0365-y>.
- Blyman, Kayla (Dr.).** “Exploring Applications of Linear Algebra through Low-Stakes Discovery Learning Assessments.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.
- Blyman, Kayla (Dr.), MAJ Bryan Adams, LTC Kristin Arney, Dr. Lisa Bromberg, and MAJ David del Cuadro-Zimmerman.** “Positive Impacts of Discovery Learning Assessments.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.
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- Blyman, Kayla (Dr.), LTC Kristin Arney, and MAJ Scott Warnke.** “Assessing Modeling Meaningfully in a Freshmen-Level Mathematical Modeling Course through Discovery Learning Assessments.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.
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- Brooks, Heather Z., Nina H. Fefferman, Maryann Hohn, Candice R. Price, Ami E. Radunskaya, Suzanne S. Sindi, **Dr. Nakeya D. Williams,** and Shelby N. Wilson. “Parasites and the Evolution of Sociality: How Social Complexity and Grooming Efficiency Affect the Selective Pressures on Group Organization.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.
- Corson, William (MAJ), and MAJ Andrew Plucker.** “Striving for Gains: Implementing Growth Mindset in a Calculus Classroom.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.
- Corson, William (MAJ), CPT David R. Galbreath, MAJ Bryan E. Adams, and Dr. Kayla Blyman.** “Written Versus Digital Feedback; Which Improves Student Learning?” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.
- Costa, Gabriel (Dr.).** “A Tribute to Professor Joseph F. Manogue.” *Mathematica Militaris* 24:1 (January 1, 2019): Article 2.
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- Hood, Karoline (MAJ, former D/Math), R. A. Perez, H. E. Cieplinski, **Dr. Theodore V. Hromadka**, G. E. Moglen, and **COL Howard D. McInvale**. “Development of an Earthen Dam Break Database.” *JAWRA Journal of the American Water Resources Association* 55:1 (February 2019): 89-101. <https://doi.org/10.1111/1752-1688.12703>.
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- Hromadka, Theodore V. (Dr.), Dr. Valmir Bucaj, CPT Tyler Walsh, and LTC Michael Scioletti**. “Assessment of Uncertainty in Doppler-Radar Estimated Precipitation.” Presented at the Association of State Floodplain Managers’ Annual Floodplain Management Conference, Cleveland, Ohio, May 19, 2019.
- Hromadka, Theodore V. (Dr.), Kameron Grubaugh, CDT Aiden Doyle ’19, CDT Anton Nelson ’19, and Bryce Wilkins ’17**. “Advances in Use of Meshless Computational Methods in Geosciences and Related Topics.” Poster presented at the SIAM Conference on Mathematical & Computational Issues in the Geosciences, Houston, Texas, March 11, 2019.
- Hromadka II, Theodore V. (Dr.), Rene A. Perez, Prasada Rao, Kenneth C. Eke, Hany F. Peters, and COL Howard D. McInvale**. “Evaluation of Doppler Radar Data For Assessing Depth-Area Reduction Factors for the Arid Region of San Bernardino County.” *Journal of Hydrometeorology* 11:2 (2019): 90858.
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- Koban, Dan (MAJ, former D/Math), MAJ Matthew Fukuzawa (former D/Math), MAJ Ryan Slocum (former D/Math), Matthew Fletcher (former D/Math), and **MAJ James Pleuss**. “Differential Effects of Incentivized Homework on Student Achievement in Undergraduate Mathematics.” *PRIMUS* (published online May 2019): 1–26. <https://doi.org/10.1080/10511970.2018.1530703>.
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- Pleuss, James D. (MAJ), Kevin Talty, MAJ Steven Morse, MAJ Patrick Kuiper, LTC Michael Scioletti, Steven B. Heymsfield, and Dr. Diana Thomas**. “A Machine Learning Approach Relating 3D Body Scans to Body Composition in Humans.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.
- Pleuss, James D. (MAJ), Kevin Talty, MAJ Steven Morse, MAJ Patrick Kuiper, LTC Michael Scioletti, Steven B. Heymsfield, and Dr. Diana M. Thomas**. “A Machine Learning Approach Relating 3D Body Scans to Body Composition in Humans.” *European Journal of Clinical Nutrition* 73 (2019): 200–208. <https://doi.org/10.1038/s41430-018-0337-1>.
- Ploch, Christopher (CDT, ’21), Dr. Diana Thomas, B Adams, MAJ Dusty Turner, CDT Adam Hug ’20, Jason Suby (DPE), J.E. Palmer, and COL Kevin Bigelman (DPE)**. “Prediction of Cadet Basic Training Physical Performance Outcomes.” Poster presented at the Experimental Biology 2019, Orlando, Florida, April 6, 2019.
- Plucker, Andrew (MAJ), and MAJ William Corson**. “Defeating Ambiguity: Modeling Problems with Calculus.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.
- Steward, Michael (Dr.), Dr. Elie Alhajjar (ACI), and Dr. Travis Russell (ACI)**. “Numerical semigroups and Kunz polytopes.” Presented at the Spring Southeastern Sectional Meeting of the AMS, Auburn, Alabama, March 17, 2019.

Turner, Dusty (MAJ), and Dr. Gabriel B. Costa. “American League or National League: Who Owns New York City?” *The Baseball Research Journal* 48:1 (Spring 2019): 72–77.

Walsh, Tyson (CPT), Dr. Valmir Bucaj, LTC Michael Scioletti, Prasada Rao, Dr. Theodore V. Hromadka II. “Integrated Water Resources Management” Presented at American Water Resources Association, Omaha, Nebraska, March 26, 2019.

Walsh, Tyson (CPT), Dr. Valmir Bucaj, LTC Michael Scioletti, Prasada Rao, Dr. Theodore V. Hromadka II. “Evaluating Complicated Hydrology” Presented at American Society of Flood Plain Management, Cleveland, Ohio, May 23, 2019.

Walsh, Tyler (CPT), LTC Michael Scioletti, Prasada Rao, Dr. Theodore V. Hromadka II, and COL Howard McInvale. “Assessment of Uncertainty in Doppler Radar Estimates of Precipitation for Use in Geoscience Studies.” *The Professional Geologist* 56:1 (March 2019): 22–26.

Wattenberg, Frank (Dr.), LTC Kristin Arney, LTC John Bacon, Dr. Kayla Blyman, Dr. Lisa Bromberg, MAJ David del Cuadro-Zimmerman, MAJ David Harness, MAJ Scott Warnke, and MAJ Sarah Wohlberg. “ASSESSMENT: Transforming the Silent Killer of Learning to an Active Booster of Learning.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.

Williams, Nakeya D. (Dr.). “Cardiovascular Dynamics during Orthostatic Stress Assessed via Pulsatile and Non-Pulsatile Models.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.

Department of Physics and Nuclear Engineering COL John Hartke, Department Head

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Kopeikin, Andrew (Dr.), MAJ Samuel Heider (D/PANE), MAJ Dominic Larkin (D/EECS), LTC James Bluman (D/CME), LTC Christopher Korpela (D/EECS), and COL Ricardo Morales (D/SE). “Unmanned Aircraft System Swarm for Radiological and Imagery Data Collection.” Presented at the AIAA Scitech 2019 Forum, San Diego, California, January 2019.

Lanzerotti, Mary (Dr.), K. Brakke, Dr. Kenneth Allen, and COL J. Hartke. “Preliminary Observations of Bursting of Molten Steel Thick Films in a Steel Plate Irradiated by a High Energy Laser.” Presented at the 2019 American Physical Society (APS), March Meeting, Boston, Massachusetts, March 7, 2019.

Lanzerotti, Mary (Dr.), Michael Meier, Kyle Wilhem, COL Krista Watts (D/Math), Susan Lintelmann (Library), and Suzanne Christoff (Library). “Incorporating DOD Research and Historical Materials into a Second-Semester Introductory Calculus-Based Physics Course.” Presented at the 2019 American Society for Engineering Annual Meeting, Tampa, Florida, June 2019.

Morock, Austin (CDT, '20), Andrea Arena, Dr. Mary Lanzerotti, MAJ Jacob Capps, MAJ Blake Huff (former PANE), and Walter Lacarbonara. “Active Sling Load Stabilization.” Paper presented at the 2019 First Nonlinear Dynamics Conference (NODYCON), Rome, Italy, February 18, 2019.

Department of Social Sciences
COL Suzanne Nielsen, Department Head

Doherty, Kathleen M., David E. Lewis, and **Dr. Scott Limbocker**. "Executive Control and Turnover in the Senior Executive Service." *Journal of Public Administration Research and Theory* 29:2 (April 2019): 159–174. <https://doi.org/10.1093/jopart/muy069>.

Fust, George (MAJ). "Why Doctrine Matters." *Small Wars Journal* (blog), June 2019. <https://smallwarsjournal.com/jrnl/art/why-doctrine-matters>.

Godfroy, Jeanne (LTC), and COL Liam Collins (DMI). "Iraq, 2003–2011: Succeeding to Fail." *Small Wars & Insurgencies* 30:1 (January 2, 2019): 140–175. <https://doi.org/10.1080/09592318.2018.1552354>.

Godfroy, Jeanne (LTC), Matthew Morton, James Powell, and Matthew Zais. *The U.S. Army in the Iraq War – Volume 1: Invasion – Insurgency – Civil War, 2003-2006*. Edited by Joel Rayburn and Frank Sobchack. Vol. 1. Carlisle Barracks, Pennsylvania: U.S. Army War College Press, 2019.

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Jadoon, Amira (Dr., CTC). "When Women Fight." Presented at the International Studies Association Annual Convention 2019, Toronto, Canada, March 26, 2019.

Margulies, Max (Dr.). "The Puzzling Persistence of Male-Only Conscription." Presented at the International Studies Association Annual Convention 2019, Toronto, Canada, March 26, 2019.

Milton, Daniel (Dr., CTC), and Muhammad al-`Ubaydi. "Islamic State Propaganda: Past, Present, and Future." Presented at the 4th Annual International Conference on Countering Daesh (ISIS) Propaganda and Ideology, Baghdad, Iraq, February 20, 2019.

Milton, Daniel (Dr., CTC), Dr. Jason Warner, and **Amira Jadoon (Dr., CTC)**. "Committing to Counterterrorism: Explaining State Decisions to Commit to UN Counterterrorism Treaties." Presented at the International Studies Association Annual Convention 2019, Toronto, Canada, March 26, 2019.

Person, Robert (Dr.). "A Mixed-Method Approach to Studying Popular Support for Democracy and Authoritarianism in Post-Soviet Countries." *SAGE Research Methods Cases Part 2*, January 2019. <https://dx.doi.org/10.4135/9781526465320>.

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———. Show #168: Dr. Robert Person Joins Jim and Steve for an In-depth Discussion on Russia, interview with Steve Putney and Jim Patrick. *Men in the Middle*, Podcast audio, 59:00. February 12, 2019. <http://www.iltsewind.com/mitm/mitm02122019.mp3>.

———. Show #170: Dr. Rob Person and Col. Randy Larsen Join Jim and Steve to Talk All Things Russia, interview with Steve Putney and Jim Patrick. *Men in the Middle*, Podcast audio, 59:01. February 26, 2019. http://iltsewind.com/mitm/mitm02262019.mp3?fbclid=IwAR0705wgW5oz57UOK_nO4J-btbXkmsndJ5hvmlRR-wo10x3QZXZmJYWKLmI.

———. "Higher Education and the Military: Re-envisioning IR Teaching and Learning in Professional Military Education." Panelist at the International Studies Association Annual Convention 2019, Toronto, Canada, March 26, 2019.

Person, Robert (Dr.), Dr. Aaron Brantly (former D/SOSH), LTC Scott Smitson (former D/SOSH), and Peter Cozzens. "Hybrid Warfare: Past & Present." Panelists at the U.S. Army Command and General Staff College, Fort Leavenworth, Kansas, March 4, 2019.

Robinson, Michael (CPT). "Danger Close: Partisan Military Politicization and Elite Credibility." Presented at the International Studies Association Annual Convention 2019, Toronto, Canada, March 26, 2019.

Sherlock, Thomas (Dr.). "Russian Society and Foreign Policy: Mass and Elite Orientations After Crimea." *Problems of Post-Communism* (published online March 14, 2019): 1–23. <https://doi.org/10.1080/10758216.2018.1561190>.

Sherlock, Thomas (Dr.) (with COL John Gregory). "How Russia and China View Each Other and America." In *Russian Strategic Intentions*, edited by Nicole Peterson. *SMA White Paper*. DoD and NSI, 2019.

Sherlock, Thomas (Dr.). "Russian Public Opinion as a Potential to Aggressive External Behavior by the Kremlin." In *Russian Strategic Intentions*, edited by Nicole Peterson. *SMA White Paper*. TRADOC and NSI, 2019.

Sherlock, Thomas (Dr.). "How Russian Society Challenges Putin's Grand Narrative: Perceptions of Domestic Problems and External Threats after Crimea." Invited presentation at SMA EUCOM teleconference, May 1, 2019.

Sherlock, Thomas (Dr.) (with COL John Gregory). "Hedged Bets or Shared Norms? Sino-Russian Great Power Relations and Public Opinion." Invited presentation at SMA DoD teleconference, July 24, 2019.

Silverstone, Scott (Dr.). "From Hitler's Germany to Saddam's Iraq: The Enduring False Promise of Preventive War." Presented at the Carnegie Council for Ethics in International Affairs, Bard College, Annandale-On-Hudson, New York, February 21, 2019. <https://www.youtube.com/watch?v=TqZH1jmhIk>.

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Wolfley, Kyle (CPT). "Military Statecraft and the Use of Multinational Exercises in World Politics." Presented at the International Studies Association Annual Convention 2019, Toronto, Canada, March 26, 2019.

Department of Systems Engineering COL Ricardo Morales, Department Head

Gillespie, Stephen (MAJ), MAJ John Caddell, CPT John Goodwill, and MAJ Jacob Shaha. "Architecting Systems-of-Systems for Operational Feedback: A Study of Army Infantry Training Analysis." Presented at the 2019 IEEE International Systems Conference (SysCon), Orlando, Florida, April 8, 2019.

Mittal, Vikram (Dr.), and Ryan Leemans. "A Systems Approach for Analyzing Operational Energy Requirements for the Warfighter." Presented at the 2019 IEEE International Systems Conference (SysCon), Orlando, Florida, April 8, 2019.

Newell, Daniel (CPT), and MAJ John Caddell. "Evaluating Teacher Impact on Student Performance: A Case Study at the United States Military Academy." Presented at the 2019 IEEE International Systems Conference (SysCon), Orlando, Florida, April 8, 2019.

Orcutt, Joshua (CDT, '19), CDT Jongbum Chae '19, CDT Daniel Graham '19, CDT Michael Matthews '19, CDT Adam Henderson '19, and MAJ Steven Song. "A System Approach for Evaluating Current and Emerging Army Open-Source Intelligence Tools." Presented at the 2019 IEEE International Systems Conference (SysCon), Orlando, Florida, April 8, 2019.

Senft, Ellie (CDT, '19), CDT Benton Weeks '19, CDT James Palmer '19, CDT Benson Neely '19, CDT Benjamin Turner '19, and MAJ John Caddell. "A Systems Dynamics Approach to Human Trafficking in Maharashtra, India." Presented at the 2019 IEEE International Systems Conference (SysCon), Orlando, Florida, April 8, 2019.

Dean's Staff

Daily, Katie (Dr.). "America's Politics Sculpted Through Europe." Presented at the Northeast Modern Language Association, Washington, D.C., March 21-24, 2019.

Gessler, Elyse C., and **Dr. Evelyn Mocek.** "Application of the Organizational Change Model for Curricular Process Revision and Institutional Practice." Presented at the 89th Annual Convention of the Southern States Communication Association, Montgomery, Alabama, April 3-7, 2019.

Department of Military Instruction COL Alan Boyer, Department Head

Beehner, Lionel M. (Dr.), and COL Liam Collins. "Can Military Force Create Peace?: Lessons for Afghanistan From Colombia." *Association of the United States Army*, January 2019. <https://www.ausa.org/articles/can-military-force-create-peace-lessons-afghanistan-colombia>.

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———. "'We Shall Not Flag or Fail': Volunteer Reserves as a Credible Deterrent Against Conventional Adversaries." Paper presented at the Southern Political Science Association Annual Conference, Austin, Texas, January 18, 2019.

Collins, Liam (COL), and Dr. Lionel M. Beehner. “Baltic States’ Militaries Buttressed by Volunteers.” *Association of the United States Army*, March 21, 2019. <https://www.USA.org/articles/baltic-states'-militaries-buttressed-volunteers>

Collins, Liam (COL), and CPT Harrison “Brandon” Morgan. “King of Battle: Russia Breaks Out the Big Guns.” *Army Magazine* 69:2 (February 2019).

Sioson, Emmanuel (MAJ). “Experimenting with the Art of Mission Command.” *Army Magazine* 69:3 (March 2019). <https://www.USA.org/articles/experimenting-art-mission-command>

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

Hewit, Jennifer K. (Dr.), Daniel A. Jaffe, Todd A. Crowder, and MAJ Alexander J. Bedard. “Body Weight Distribution Over the Hands throughout the Duration of a Continuous Push-up Bout.” *Research & Investigations in Sports Medicine* 4:4 (January 2019): 1–5.

Fielitz, Lynn R. (Dr.), CPT Anita Phillips, COL Kevin A. Bigelman, and Jeffrey Hansen. “Teachnology.” Presented at the SHAPE America National Convention, Tampa, Florida, April 2019.

Van Dam, Drew J., Dr. Lynn R. Fielitz, and C. D. Coffey. “Will an Enhanced Thayer Method of Learning Apply to Physical Education Classes?” *Strategies* 32:1 (January 2019): 10-15.

Army Cyber Institute COL Andrew Hall, Director

Alhajjar, Elie (Dr.). “A Case Study of the Noordin Terrorist Network.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.

Alhajjar, Elie (Dr.), and Lt. Clément Lefèvre (Ecole Saint Cyr). “On The Similarity Metric.” *Mathematica Militaris* 24:1 (June 24, 2019). https://digitalcommons.usmalibrary.org/mathematica_militaris/vol24/iss1/4.

Barnsby, Rob (J.D.). “Why Certain States Are Happy to Have Cyber Attacks Attributed to Them” Speech presented at the CyCon (International Conference on Cyber Conflict) in Tallinn, Estonia, May 29, 2019.

Barnsby, Rob (J.D.), and Sean Watts. “Law and Policy of Attributing Cyber Operations.” Presented at the CyCon, Tallinn, Estonia, May 28, 2019.

Beshaj, Lubjana (Dr.). “Absolute Reduction of Binary Forms.” *Albanian Journal of Mathematics* 12:1 (January 2019): 36–77.

Beshaj, Lubjana (Dr.), and Scott Guest. “The Weighted Moduli Space of Binary Sextics.” In *Algebraic Curves and Their Applications*, edited by Lubjana Beshaj and Tony Shaska, American Mathematical Society, March 2019.

Beshaj, Lubjana (Dr.), and M. Polak. “On Hyperelliptic Curves of Genus 3.” In *Algebraic Curves and Their Applications*, edited by Lubjana Beshaj and Tony Shaska, American Mathematical Society, March 2019.

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Borghard, Erica D. (Dr.), and MAJ Shawn Lonergan (former SOSH). “Escalation Dynamics in Cyberspace.” Presented at the International Studies Association Annual Convention 2019, Toronto, Canada, March 26, 2019.

———. “Chinese Hackers Are Stealing U.S. Defense Secrets: Here Is How to Stop Them.” *Council on Foreign Relations* (blog), March 11, 2019. <https://www.cfr.org/blog/chinese-hackers-are-stealing-us-defense-secrets-here-how-stop-them>.

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Esquibel, Judy (CW4), and LTC Erica Mitchell. “Jack Voltaic 2.0: Threats to Critical Infrastructure.” ACI Technical Report. West Point, New York: Army Cyber Institute, February 1, 2019.

Fulton, Lawrence V., and **MAJ Nathaniel D. Bastian.** “Multiperiod Stochastic Programming Portfolio Optimization for Diversified Funds.” *International Journal of Finance & Economics* 24:1 (January 2019): 313–327. <https://doi.org/10.1002/ijfe.1664>.

Gioe, Dave (Dr.). “Rebalancing Cybersecurity Imperatives: Patching the Social Layer.” Lecture presented at the Institute of World Politics, Washington, D.C., June 2019.

———. “Make America Strategic Again.” *The National Interest*, April 17, 2019. <https://nationalinterest.org/feature/make-america-strategic-again-53002?fbclid=IwAR1NJTgsId5vkaxnIz-ARC-42oAF-uUT5yWUgoaVEoyalISco-xMoxkfmZrE>.

Gioe, David V. (Dr.), Michael S. Goodman, and **Dr. David S. Frey (D/History)**. “Unforgiven: Russian Intelligence Vengeance as Political Theater and Strategic Messaging.” *Intelligence and National Security* 34:4 (June 7, 2019): 561–575. <https://doi.org/10.1080/02684527.2019.1573537>.

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Hillman, Jason (MAJ). “Educating the Public on Cyber Threats.” Presented at the Cyber Security Seminar, University of Southern Mississippi’s Gulf Park campus, April 11, 2019.

Kallberg, Jan (Dr.). “Putting a Value on the 50x Coder.” *Fifth Domain* (blog), June 25, 2019. <https://www.fifthdomain.com/thought-leadership/2019/06/25/putting-a-value-on-the-50x-coder/>.

———. “Cyber Deterrence – One Size Only Fits One.” Presented at the International Studies Association Annual Convention 2019, Toronto, Canada, March 26, 2019.

———. “Humanitarian Cyber Operations - Intercepting Atrocities with Digital Tools.” Presented at the International Studies Association Annual Convention 2019, Toronto, Canada, March 26, 2019.

Klipstein, Michael (MAJ). Episode 85: Former NSA Officer on the Dangers of Information Ops, interview with George Rettas. *Taskforce 7 Radio: The Voice of Cyber Security*, Podcast Audio, 1:02:27. May 20, 2019. https://www.voiceamerica.com/episode/115209/ep-85-former-nsa-officer-on-the-dangers-of-information-ops?fbclid=IwAR0qk2T0KJAMrMyaHxAoAvI9Vdt_vpoTph_VATNpq03CTZA8ukSJI_1rLJs.

Pyke, Aryn (Dr.), and **LTC Erica Mitchell**. “Avoid Reinventing the “Wi” in WiCyS: How Common are Gender and Recruitment Challenges?” Presented at the Women in Cybersecurity (WiCyS) Conference, Pittsburgh, Pennsylvania, March 28-30, 2019.

Pyke, Aryn (Dr.), Gary Bourque, and Jo-Anne LeFevre. “Expediting Arithmetic Automaticity: Do Inefficient Computation Methods Induce Spontaneous Testing Effects?” *Journal of Cognitive Psychology* 31:1 (January 2, 2019): 104–115. <https://doi.org/10.1080/20445911.2018.1557664>.

Russell, Travis B. (Dr.). “Quantum Correlation Sets and Quantum Communication.” Presented at the Joint Mathematics Meetings, Baltimore, Maryland, January 16, 2019.

Skinner, Sam, Kishan Patel, **CW3 Jeremiah Pittman**, MAJ Brian Lebednik (former ACI), **Mr. Frank Vassallo (D/EECS)**, and **Dr. Kate Duncan (D/EECS)**. “Direction Finding System Using an N-Channel Software Defined Radio Implemented with a Phase Interferometry Algorithm.” Paper presented at the IEEE SoutheastCon 2019, Huntsville, Alabama, April 11-14, 2019.

Thomson, Robert (Dr.). “The Cyber Domains: Understanding Expertise for Network Security.” In *The Oxford Handbook of Expertise*, edited by Paul Ward, Jan Maarten Schraagen, Julie Gore, and Emilie M. Roth, April 2019. <https://www.oxfordhandbooks.com/view/10.1093/oxfordhb/9780198795872.001.0001/oxfordhb-9780198795872-e-31>.

Vanatta, Natalie (LTC), and Brian David Johnson. “Threatcasting: A Framework and Process to Model Future Operating Environments.” *The Journal of Defense Modeling and Simulation* 16:1 (January 1, 2019): 79–88. <https://doi.org/10.1177/1548512918806385>.

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Christopher Barth, Librarian and Associate Dean

Danley, Mark (Dr.). “Case Study Lecture: Clash of Ideologies: Fighting and Terminating a Major Regional War—The Korean War, 1950-1953.” Guest Lecture for the Strategy and War Core Course, Fleet Seminar Program of the Naval War College delivered at Naval Station Great Lake, Illinois, February 19, 2019.

Danley, Mark (Dr.). “South Asian Perspectives on the 1756-57 Campaign in Bengal.” Paper presented at the Society for Military History, Columbus, Ohio, May 9, 2019.

**Center for Enhanced Performance
LTC Darcy Schnack, Director**

Kelty, Ryan (USAFA), **LTC Darcy Schnack**, **Dr. Morten G. Ender (BS&L)**, **Dr. Michael Matthews (BS&L)**, and David Rohall. "Moderating Effect of Civil-Military Status on the Relationship between Perceptions of Environmental Degradation and National Security." Presented at the Eastern Sociological Society Annual Meeting, Boston, Massachusetts, March 14-17, 2019.

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 January 1– June 30, 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	Coming Soon!
English and Philosophy	Susan Lintelmann
Foreign Languages	Elaine McConnell
Geography and Environmental Engineering	Alicia Mauldin-Ware
History	Mary Ahenakew Mark Danley
Law	Suzanne Christoff
Mathematical Sciences	Heather Seminelli
Physics and Nuclear Engineering	Celeste Evans
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Military Instruction	Daniel Pritchard
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