

ACADEMIC EDUCATION

The University of Texas, Austin	Environmental Engineering	Ph.D.	2013
The University of Texas, Austin	Environmental Engineering	M.S.	2007
The University of Michigan, Ann Arbor	Civil and Environmental Engineering	B.S.	2001

MILITARY EDUCATION

Air War College (Correspondence)	2017
Air Command & Staff College (In-Residence & Correspondence)	2010
Squadron Officer School (In-Residence)	2005
Air and Space Basic Course	2002

ACADEMIC EXPERIENCE

University of Colorado, Anschutz School of Medicine	Assistant Professor 2022-present
Air Force Institute of Technology	Associate Adjunct Professor 2020-present Assistant Professor – 2017-2020
The United States Air Force Academy:	Assistant Professor – 2009-2010, 2014-2017 Instructor – 2007-2009

DETAILED PROFESSIONAL/ACADEMIC EXPERIENCE

2022-present, Associate Director Military and Veterans Microbiome Consortium for Research and Education, Department of Veteran Affairs

Position/Accomplishment: Leads all biological sampling efforts for Rocky Mountain MIRECC, independent research for relationship between mental health and built environment, indoor air quality, and microbiome

2022-present, Assistant Professor, Department of Physical Medicine and Rehabilitation, University of Colorado Anschutz School of Medicine

Position/Accomplishment: Researcher on microbiome and built environment in relationship to mental health outcomes

2020 – 2022, Tyndall Execution Branch Chief, Natural Disaster Recovery Division, Air Force Civil Engineering Center

Position/Accomplishment: Responsible for \$3.0B military construction program to rebuild Tyndall AFB after Hurricane Michael, leads 31 individuals in branch

2017 – 2020, Assistant/Associate Professor and Graduate Engineering Management Program Chair & Curriculum Chair, AFIT

Position/Accomplishment: Responsible for directing the curriculum, organization, and research agenda of the AFIT Graduate Engineering Management program with approximately 20 students per year

2015 – Present, Founding Member, Military and Veterans Microbiome Consortium for Research and Education (MVM-CoRE)

Position/Accomplishment: One of four founding members to establish a research consortium with the Department of Veteran Affairs, University of Colorado Boulder, University of Maryland that has received over \$1M in funding; provided the microbiome related research directions and technical guidance on all microbial sampling efforts, bacterial and fungal sequencing, and conduct the analysis through bioinformatics

2014 – 2017, Assistant Professor and Environmental Engineering Division Chief, USAF Academy

Position/Accomplishment: Responsible for directing the curriculum and organization of the environmental engineering major, classroom teacher and researcher, led change in curriculum with loss of Environmental Engineering degree due to budget cuts

2013 – 2014, Engineering Flight Commander, 8 CES, Kunsan Air Base, Republic of Korea

Position/Accomplishments: Led 40 person flight in design, award, and construction of all major improvement projects on base which included over \$100M in active construction and \$260M in active design

2010 – 2013, PhD Student, Environmental Engineering, University of Texas

Thesis: The Bacterial and Fungal Microbiome of Retail Stores; advised by Dr. Kerry Kinney and Dr. Jeffrey Siegel

2007 – 2010, Instructor and Assistant Professor, USAF Academy

Position/Accomplishment: Professor and advisor to Civil and Environmental cadets; taught freshman and sophomore intro to engineering course, intro to environmental engineering, hydrology, and FE prep; led high school engineering camp, base environmental compliance program, ASCE faculty advisor to program ranked top 5% in nation, 1st to implement env modeling activity adopted by 6 universities

2006 – 2007, Graduate Student, Environmental Engineering, University of Texas

Master's Report: Membrane Bioreactors: Review of Operational Parameters, Benefits, Detraction, and Current/Future Applications; advised by Dr. Kerry Kinney

2004 – 2006, Project Manager & Chief Plans and Programs Element, Lajes Field Air Base, Portugal

Position/Accomplishment: Managed 14 projects at \$79M, planning and response to short-suspense calls garnered \$12M+ at year end, led in-house award/construction management of \$14.8M MFH upgrade

2001 – 2004, Readiness Commander and Chief Env Planning Element, Hickam Air Force Base

Position/Accomplishment: Commanded 13-person readiness flight, led prep of 294 deploying troops (most heavily tasked engineers in PACAF), developed/executed 1st-ever wing C-17 deployment exercise, provided environmental review of over 350 projects

Deployments

Jun – Dec 2009, Chief Gulf Region Construction Management Office, Al Udeid AB, Qatar

Construction manager for \$858M program; personally recognized by CENTCOM/CC for completion of fwd HQ

Sep – Dec 2002, AF Engineering Rep., Karshi-Khanabad (K2) AB, Uzbekistan

Only AF engineer, redesigned airfield parking, increased capability by 25%

Registered Professional Engineer, Michigan (ID 6201056341, since May 2009)

AWARDS

Academic

2019 AFIT MOAA Outstanding Military Professor Award

2019 Woods Hole Microbiome of Built Environment Travel Grant

2019 AFIT Dean's Award for Top Thesis in Department (Advisee Capt Cody Beemer)

2016 Alfred P. Sloan Early Career Award Travel Grant

2015 National Academy of Sciences Microbiome of the Built Environment Travel Grant

2012 Kolodzey Grant at the University of Texas

2010 Society of American Military Engineers National Educator of the Year

2010 United States Air Force Academy Outstanding Academy Educator (#1 in Department)

2008 United States Air Force Department of Civil and Environment Engineering Top First Year Instructor

Military Decorations

Meritorious Service (3), AF Commendation (4), Meritorious Unit, AF Outstanding Unit (2), National Defense Service, AF Expeditionary, GWOT Expeditionary, GWOT Service, Korean Defense Service, Humanitarian Service, AF Overseas Short (2), AF Overseas Long, AF Longevity, AF Training

ACADEMIC SERVICE

Academic Philosophy: Cultivate a lifelong yearning for knowledge in others through applied engineering solutions that are primarily aimed at helping our military, veterans, and their families.

Courses Taught

Undergraduate	Introduction to Engineering (Freshman), Air Base Contingency Engineering (Sophomore), Hazardous Waste and Contaminant Transport (Junior), Introduction to Environmental Engineering (Junior), Fluid Hydraulics (Junior), Design of Municipal and Hazardous Waste Facilities (Senior), Waste Water Treatment Design (Senior)
Graduate	Asset Management I, Asset Management II, Advanced Topics in Asset Management, Indoor Air Quality, Big Data Analysis in the Built Environment, Performance of Transportation Assets, Invisible World of Influencing Human Mood and Behavior, Operations Center Concept of Operations, Review of Journal Articles, Conducting Systematic Reviews, Seminar, Short Quarter,

United States Air Force Academy: Chair Environmental Engineering Program, Commander Field Engineering and Laboratory Summer Course, Department Research Officer, Department Deputy for Operations, Faculty Advisor American Society of Civil Engineers Student Chapter

Air Force Institute of Technology: Program Chair Graduate Engineering Management Program, Institutional Biosafety Committee (Board Member, Reviewer, Focus Group Member), AFIT/EN Awards Committee, AFIT/EN Laboratory Biosafety Officer, Associate Department Head for Teaching, Department Representative for Awards, Department Faculty Research Council Representative, Department Alternate Security Manager

Academic Community: Hosted first ever DoD Microbiome of Built Environment Symposium, Founding Member (1 of 4) of Military and Veterans Microbiome Consortium for Research and Education (MVM-CoRE), Co-hosted First Annual PACT Act Research Symposium for Veterans Health, Member International Society of Indoor Air Quality and Climate Steering Group on Microbes in Indoor Environments, Vice Chair International Society of Indoor Air Quality Microbes in Indoor Environments, Planning Member Society of American Military Engineers Healthy Engineering Task Force, Member DoD Tri-Services Microbiome Consortium, Peer Reviewer for (1) NSF Graduate Research Fellowship Program, (2) Health Buildings Conference, (3) Indoor Air Conference, (4) *Atmospheric Environment*, (5) *Building and Environment*, (6) *Energy and Buildings*, (7) *Indoor Air*, (8) *Science and Technology for the Built Environment*, (9) *PLoS ONE*

Mentored Students (all AFIT unless otherwise noted)

PhD Committee	Christopher Stamper (2018 graduate University of Colorado Boulder)
MS Chair	Cody Beemer (#1 thesis in ENV), James Tyhurst, Nester Hernandez, Nathanael Kohl, David Leonard, Ryan Spencer, William Taylor, Alvin Yip
MS Committee	Sean Stuntz, Brendan Maestas, Andrew Davenport, Lukas Cowan, Ashlee Ellis, Ramoane Jordan, Timothy Plourde, Scott Guerin, Jedidiah Langlois, Jerome Henrard
Undergraduates	Brandon Barnes, Daniel Butcher, Luther Gurhrie, Jacob Holland, Justin Jones, Kaylee Kostka, Kyle LePrade, Stephanie Ohms, Amelia Roddenberry, John Rowan, Tabitha Sprankle, Sandra Suito, Karen Wolf (all USAFA)

RESEARCH

Research Philosophy: Conduct world-renowned research on the connections between the built environment, mental health, and the microbiome to provide meaningful and actionable results for our military, veterans, and their families.

Grant Funding Agencies: National Institutes of Health (Co-I), VA Office of Research and Development (Co-I), RM MIRECC (Co-I), State of Colorado Mindsource (Co-I), Sloan Foundation (PI), USAF Academy (PI & Co-I), DARPA (PI), Air Force Research Laboratory (PI & Co-I), AF Installation and Mission Support Center (PI), Air Force Civil Engineering Center (PI)

PEER REVIEWED JOURNAL ARTICLES (* = mentored students)

- Hoisington AJ**, Stearns-Yoder KA, Stamper CE, Simonetta JA, Oslin DW, Brenner LA. (2023). “Longitudinal Influence of Prescribed Antidepressants on Fecal and Oral Microbiomes Among Veterans With Major Depressive Disorder”. *Journal of Neuropsychiatry and Clinical Neurosciences*, online ahead of print, DOI <https://doi.org/10.1176/appi.neuropsych.20220221>.
- Hoisington AJ**, Stearns-Yoder KA, Stamper CE, Holliday R, Brostow DP, Penzenik ME, Forster JE, Postolache TT, Lowry CA, Brenner LA. (2023). “Association of homelessness and diet on the gut microbiome: a United States-Veteran Microbiome Project (US-VMP) study”. *MSystems*, e01021-23, DOI <https://doi.org/10.1128/msystems.01021-23>.
- Hoisington AJ**, Lowry CA, McDonald LT, Krefft SD, Rose CS, Kovacs EJ, Brenner LA. (2023). “First Annual PACT Act Research Symposium on Veterans Health: A Colorado PACT Act Collaboration (CoPAC) Initiative”, *Military Medicine*, usad391, DOI <https://doi.org/10.1093/milmed/usad391>.
- Sun J, Ince MN, Abraham C, Barrett T, Brenner LA, Cong Y, Dashti R, Dudeja PK, Elliott D, Griffith TS, Heeger PS, **Hoisington AJ**, Irani D, Kim TK, Kapur N, Leventhal J, Mohamadzadeh M, Mutlu E, Newberry R, Peled JU, Rubinstein I, Sengsayadeth S, Tan CS, Tan X, Tkaczyk E, Wertheim J, Zhang JZ. (2023). “Modulating microbiome-immune axis in the deployment-related chronic diseases of Veterans: report of an expert meeting”, *Gut Microbes*, 15:2, DOI: <https://doi.org/10.1080/19490976.2023.2267180>.
- Hoisington AJ**, Stamper CE, Stearns-Yoder KA, Haghghi F, Lowry CA, Brenner LA. (2023). “A cross-sectional study of correlations among blood-based biomarkers for intestinal permeability: A pilot study of United States veterans with posttraumatic stress disorder symptoms”. *Brain Behav Immun Health*. 34:100702. DOI <https://doi.org/10.1016/j.bbih.2023.100702>.
- Mohyuddin H, Laffon B, Teixeira JP, Costa S, Teixeira-Gomes A, Pásaro E, Constantine N, Dagdag A, Ortmeyer HK, Tizenberg B, Afram L, Yen P, Marano C, Lowry CA, **Hoisington AJ**, RachBeisel JA, Valdiglesias V, Lema-Arranz C, Fernández-Bertólez N, Maseda A, Millán-Calenti JC, Kovacs EJ, Gostner JM, Fuchs D, Brenner LA, Lorenzo-López L, Postolache TT. (2023). “Toxoplasma gondii IgG Serointensity Is Positively Associated With Frailty”. *J Gerontol A. Biol Sci Med Sci*. Epub ahead of print. PMID: 37939652. DOI <https://doi.org/10.1093/gerona/glad228>
- Brostow DP, Donovan M, Penzenik M, Stamper CE, Spark T, Lowry CA, Ishaq SL, **Hoisington AJ**, Brenner LA. (2023). "Food desert residence has limited impact on veteran fecal microbiome composition: a US Veteran Microbiome Project study." *Msystems*, e00717-23.
- Hoisington AJ**, Stamper CE, Bates KL, Stanislski MA, Flux MC, Postolache TT, Lowry CA, Brenner LA. (2023). “Human microbiome transfer in the built environment differs based on occupants, objects, and buildings”. *Sci Rep* 13, 6446. DOI <https://doi.org/10.1038/s41598-023-33719-6>
- Brenner LA, Stearns-Yoder KA, Stamper CE, Hoisington AJ, Brostow DP, Hoffmire CA, Forster JE, Donovan ML, Ryan AT, Postolache TT, Lowry CA. (2022). “Rationale, design, and methods: A randomized placebo-controlled trial of an immunomodulatory probiotic intervention for Veterans with PTSD”, *Contemporary Clinical Trials Communication*, 28, 100960. DOI <https://doi.org/10.1016/j.conctc.2022.100960>.
- Robinson JM., Redvers N, Camargo A, Bosch CA, Breed MF, Brenner LA, Carney MA, Chauhan A, Dasari M, Ditz LG, Friedman M, Grieneisen L, **Hoisington AJ**, Horve PF, Hunter A, Jeck S, Jorgensen A, Lowry CA, Man I, Mhuireach G, Navarro-Perez E, Ritchie EG, Stewart JD, Watkins H, Weinstein P, Ishaq SL. (2022). “Twenty important research questions in microbial exposure and social equity”. *Msystems*, 7(1), e01240-21. DOI <https://doi.org/10.1128/msystems.01240-21>
- Stanislawski MA, Stamper CE, Stearns-Yoder KA, **Hoisington AJ**, Brostow DP, Forster JE, Postolache TT, Lowry CA, Brenner LA. (2021). “Characterization of the gut microbiota among Veterans with unique military-related exposures and high prevalence of chronic health conditions: A United States-Veteran

- Microbiome Project (US-VMP) study”, *Brain, Behavior, & Immunity – Health*, 18, 100346. DOI <https://doi.org/10.1016/j.bbih.2021.100346>
- Tizenberg BN, Brenner LA, Lowry CA, Okusaga OO, Benavides DR, Hoisington AJ, Benros ME, Stiller JW, Kessler RC, Postolache TT. (2021). “Biological and psychological factors determining neuropsychiatric outcomes in COVID-19”, *Current Psychiatric Reports*, 23(10), 1-12, DOI <https://doi.org/10.1016/j.bbih.2021.100346>
- Schuldt SJ, Jagoda JA*, **Hoisington AJ**, Delorit JD. (2021). “A systematic review and analysis of the viability of 3D-printed construction in remove environments”, *Automation in Construction*, 125, 103642, DOI <https://doi.org/10.1016/j.autcon.2021.103642>
- Taylor WL*, Schuldt SJ, Delorit JD, Chini CM, Postolache TT, Lowry CL, Brenner LA, **Hoisington AJ**. (2021). “A framework for estimating the United States depressive burden attributable to indoor fine particle matter exposure”, *Science of the Total Environment*, 756, 143858, DOI <https://doi.org/10.1016/j.scitotenv.2020.143858>
- Postolache TT, Wadhawan A, Rujescu D, **Hoisington AJ**, Dagdag A, Baca-Garcia E, Lowry CA, Okusaga OO, Brenner LA. (2021) “Toxoplasma gondii, suicidal behavior, and intermediate phenotypes for suicidal behavior”, *Frontiers in Psychiatry*, 12, 806, DOI <https://doi.org/10.3389/fpsy.2021.665682>
- Beemer CJ*, Stearns-Yoder K, Schuldt SJ, Kinney KA, Lowry CA, Postolache TT, Brenner LA, **Hoisington AJ**. (2021). “A brief review on mental health for select elements of the built environment”, *Indoor and Built Environment*, 30(2), 152-165, DOI <https://doi.org/10.1177/1420326X19889653>
- Brostow DP, Stamper CE, Stanislawski MA, Stearns-Yoder KA, Schneider A, Postolache TT, Forster J, **Hoisington AJ**, Lowry CA, Brenner LA. (2021). “A homogenous, Western-style diet and the gut microbiota in military Veterans: Initial results from the United States-Veteran Microbiome Project (US-VMP)”, *Gut Microbiome*, 2.
- Karl JP, Barbato RA, Doherty LA, Gautam A, Glaven S, Kokoska RJ, Leary D, Mickol RL, Perisin M, **Hoisington AJ**, Opstal EJ, Varaljay V, Kelley-Loughnan N, Mauzy CA, Goodson MS, Soares JW. (2020). “Meeting report on the third annual Tri-Service Microbiome Consortium symposium”, *Frontiers in Microbiology Systems Microbiology*, 15(12), 1-11 DOI <https://doi.org/10.1186/s40793-020-00359-6>
- Brenner LA, Stamper CE, **Hoisington AJ**, Stearns-Yoder KA, Stanislwksi MA, Brostow DP, Hoffmire CA, Forster JE, Schneider AL, Postolache TT, Lowry CA. (2020). “Microbial diversity and community structures among those with moderate to severe TBI: A United States-Veteran Microbiome Project (US-VMP) study”, *Journal of Head Trauma Rehabilitation*, 35(5), DOI <https://doi.org/10.1097/htr.0000000000000615>
- Brenner LA, Forster JE, Stearns-Yoder KA, Stamper CE, **Hoisington AJ**, Brostow DP, Mealer M, Wortzel HS, Postolache TT, Lowry CA. (2020). “Evaluation of an immunomodulatory probiotic intervention for Veterans with co-occurring mild traumatic brain injury and posttraumatic stress disorder: a pilot study”, *Frontiers in Neurology Neurotrauma*, 11, DOI <https://doi.org/10.3389/fneur.2020.01015>
- Jagoda J*, Schuldt S, **Hoisington A**. (2020). “What do you think? Lets think it through! Using the analytic hierarchy model to make decisions”, *Frontiers for Young Minds*, 8(78), DOI <https://doi.org/10.3389/frym.2020.00078>
- Filer JE*, Delorit JD, **Hoisington AJ**, Schuldt SJ. (2020). “Optimizing environmental and economic performance of infrastructure at remote communities”, *Sustainability*, 12(6), 2208, DOI <https://doi.org/10.3390/su12062208>.
- Filer J*, Schuldt S, and **Hoisington A**. (2020). “What is the best way to take care of buildings”, *Frontiers for Young Minds*, 8, 28 DOI <https://doi.org/10.3389/frym.2020.00028>.

- Postolache T, Wadhawan A, Can A, Lowry C, Woodbury M, Makkar H, **Hoisington A**, Scott A, Potocki E, Benros M, Stiller J. (2020). "Inflammation in Traumatic Brain Injury", *Journal of Alzheimer's Disease*, 74(1), 1-28, DOI <https://doi.org/10.3233/JAD-191150>.
- Wadhawan A, Reynolds M, Makkar H, Scott A, Potocki E, **Hoisington A**, Brenner L, Dagdad A, Lowry C, Dwivedi Y, Postolache T. (2020). "Periodonal pathogens and neuropsychiatric health", *Current Topics in Medicinal Chemistry*, published ahead of print 10 Jan 2020, DOI <https://doi.org/10.2174/1568026620666200110161105>.
- Gragno C, Raheja U, Snitker S, Lowry C, Stearns-Yoder K, **Hoisington A**, Brenner L, Saunders E, Stiller J, Ryan K, Rohan K, Mitchell B, Postolache T. (2020). "Seasonal affective disorder and seasonal changes in weight and sleep duration are inversely associated with plasma adiponectin levels", *Journal of Psychiatric Research*, 122, 97-104, DOI <https://doi.org/10.1016/j.jpsychires.2019.12.016>.
- Jagoda JA*, **Hoisington AJ**, Schuldt SJ. (2020). "Star light, star bright...Let's build a house on the moon tonight!", *Frontiers for Young Minds*, 8, 546023, DOI <https://doi.org/10.3389/frym.2020.546032>
- Thomsen N*, Wagner T, **Hoisington A**, Schuldt S. (2019). "A sustainable prototype for renewable energy: optimized prime-power generator solar array replacement", *International Journal of Energy Production and Management*, 4(1), 28-39, DOI <https://doi.org/10.2495/EQ-V4-N1-28-39>.
- Hoisington AJ**, Stearns-Yoder KA, Schuldt SJ, Beemer CJ*, Kinney KA, Postolache TT, Lowry CA, Brenner LA. (2019). "Ten questions concerning the built environment and mental health", *Building and Environment*, 155, 58-69, DOI <https://doi.org/10.1016/j.buildenv.2019.03.036>.
- Corona CC, Zhang M, Wadhawan A, Daue ML, Groer MW, Dagdag A, Lowry CA, **Hoisington AJ**, Ryan KA, Stiller JW, Fuchs D, Mitchell BD, Postolache TT. (2019). "Toxoplasma gondii IgG associations with sleepwake problems, sleep duration and timing", *Pteridines*, 30(1), 1-9, DOI <https://doi.org/10.1515/pteridines-2019-0001>.
- Sharma A, Richardson M, Cralle L, Stamper C, Maestre JP, Stearns-Yoder K, Bates K, Kinney K, Brenner L, Lowry C, Gilbert J, **Hoisington A**. (2019) "Longitudinal assessment of the influence of lifestyle homogenization on the microbiome in a cohort of United States Air Force Cadets", *Microbiome* 7(70), 1-17, DOI <https://doi.org/10.1186/s40168-019-0686-6>.
- Brenner LA, **Hoisington AJ**, Stearns KE, Stamper C, Heinz J, Postolache TT, Hoffmire C, Stanislawski M, Lowry CA. (2018). "Military-related exposures, normal physiology, dysbiosis, and disease: the United States-Veteran Microbiome Project (US-VMP)", *Frontiers in Cellular and Infection Microbiology*, 8, 400 DOI <https://doi.org/10.3389/fcimb.2018.00400>.
- Hoisington AJ**, Billera M, Bates K, Stamper CE, Stearns, KE, Lowry CA, Brenner LA. (2018). "Exploring service dogs for rehabilitation of Veterans with PTSD: A microbiome perspective", *Rehabilitation Psychology*, 63(4), 575-587, DOI <http://dx.doi.org/10.1037/rep0000237>.
- Hemmings SM, Malan-Muller S, van den Huevel LL, Demmitt BA, Smith DG, Bohr AD, Stamper CE*, Hyde ER, Morton JT, Marotz CA, Siebler PH, **Hoisington AJ**, Brenner LA, Postolache TT, Dicks LM, McQueen MB, Krauter KS, Knight R, Seedat S, Lowry CA. (2017). "The microbiome in Posttraumatic Stress Disorder (PTSD) and Trauma-Exposed Controls: An Exploratory Study", *Psychosom Med*, 79(8), 936-946, DOI <http://dx.doi.org/10.1097/PSY.0000000000000512>.
- Amritwar A, Lowry C, Brenner L, **Hoisington A**, Stiller J, Hamilton R, Postolache T. (2017). "Mental health in allergic rhinitis: depression and suicidal behavior", *Curr Treat Options Allergy*, 4(1), 71-97, DOI <https://doi.org/10.1007/s40521-017-0110-z>.
- Raheja U, Fuchs D, Lowry C, Stephens S, Pavlovich M, Mohyuddin H, Yousufi H, Ryan K, O'Conner J, Brenner L, Punzala C, **Hoisington A**, Nijar G, Groer M, Shuldiner A, Pollin T, Stiller J, Mitchell B, Postolache T.

- (2017), “Heritability of plasma neopterin levels in the Old Order Amish”. *Journal of Neuroimmunology*, 307, 37-41, DOI <https://doi.org/10.1016/j.jneuroim.2017.02.016>.
- Stamper C, **Hoisington A**, Gomez O, Halweg-Edwards A, Smith D, Bates K, Kinney K, Postolache T, Brenner L, Rook G, Lowry C. (2016), “The microbiome of the built environment and human behavior: Implications for emotional health and well-being in postmodern western societies”, *International Review of Neurobiology*, 131, 289-323, DOI <https://doi.org/10.1016/bs.irn.2016.07.006>.
- Lowry C, Smith D, Siebler P, Schmidt D, Stamper C*, Hassell J, Yamashita P, Fox J, Reber S, Brenner L, **Hoisington A**, Postolache T, Kinney K, Marciani D, Hernandez M, Hemmings S, Malan-Muller S, Wright K, Knight R, Raison C, Rook G. (2016), “The microbiota, immunoregulation, and mental health: Implications for public health”, *Curr Envir Health Rpt*, 3(3), 270-286, DOI <https://doi.org/10.1007/s40572-016-0100-5>.
- Okusaga O, Fuchs D, Reeves G, Giegling I, Hartmann A, Konte B, Friedl M, Groer M, Cook T, Stearns-Yoder K, Pandey J, Kelly D, **Hoisington A**, Lowry C, Eaton W, Brenner L, Rujescu D, Postolache T. (2016), “Kynurenine and tryptophan levels in patients with schizophrenia with elevated antiigliadin immunoglobulin G antibodies”, *Psychosom Medicine*, 78(8), 931-939, DOI <https://doi.org/10.1097/PSY.0000000000000352>.
- Hoisington A**, Brenner L, Kinney K, Postolache T, Lowry C. (2015), “The microbiome of the built environment and mental health”, *Microbiome*, 3(60), DOI <https://doi.org/10.1186/s40168-015-0127-0>.
- Hoisington A**, Maestre JP, Kinney KA, Siegel JA. (2015). “Characterizing the bacterial communities in retail Stores in the United States”, *Indoor Air*. 25(6), 857-868, DOI <https://doi.org/10.1111/ina.12273>.
- Hoisington A**, Maestre JP, King M, Siegel JA, Kinney KA. (2014). “The impact of sampler selection on characterizing the indoor microbiome”, *Building and Environment*, 80, 274-282, DOI <https://doi.org/10.1016/j.buildenv.2014.04.021>.
- Hoisington A**, Maestre JP, Siegel JA, Kinney KA. (2013). "Exploring the microbiome of the built environment: A primer on four biological methods available to building professionals", *HVAC&R Research*, 20(1), 167-175, DOI <https://doi.org/10.1080/10789669.2013.840524>.
- Siegel JA, Srebric J, Crain N, Nirlo E, Zaatari M, **Hoisington A**, Urquidi J, Shu S, Kim Y, Jereemit D, Khurshid, S. (2013). “ASHRAE research project 1596-RP: ventilation and indoor air quality in retail stores”, *No. RP1596. ASHRAE*, 104,79-85,

BOOK CHAPTERS (total=2)

- Hoisington A**, Kays K, Christ JA, Cooper C. (2017). “Risk-Taking in Engineering Instruction at the U.S. Air Force Academy” in *Risk-Taking in Higher Education: The Importance of Negotiating Intellectual Challenge in the College Classroom*, Editors Kelyt R, Bunten B, Rowman & Littlefield, 119-129.
- Postolache T, Wadhawan A, Can A, Lowry C, Woodbury M, Makkar H, **Hoisington A**, Scott A, Potocki E, Benros M, Stiller J. (2020). “Inflammation in Traumatic Brain Injury” in *Handbook of Traumatic Brain Injury and Neurodegeneration*, Editor Rudy J Castellani, 249-258.

INVITED DISTINGUISHED SPEAKING EVENTS (total=XX)

- Hoisington A**. (2023). “Connections between mental health, airborne pollutant exposures, and the built environment”, Invited presentation at National Jewish Health, virtual Mar 9 2023

Hoisington A., Brenner LA. (2022). “The Use of Prebiotics or Probiotics to Improve Health: The Promise, Current Reality, and Future Direction”, Invited presentation at University of Colorado Anschutz PM&R Grand Rounds, 7 Dec 2022.

Hoisington A. (2022). “Connections between mental health, airborne pollutant exposures, and the built environment”, Invited presentation at Grand Rounds, Eastern Colorado Health Care, Department of Veteran Affairs, virtual Oct 27, 2022.

Hoisington A. (2021). “The Built Environment and Mental Health”, Invited presentation to Society of American Military Engineers, sponsored by the Health Engineering Task Force Community of Interest, virtual Aug 23, 2021.

Hoisington A. (2020). “Mental Health in the Built Environment– Exploring the premise, the perception, and the promise”, Invited presentation to joint meeting of SAME and AIA, Dayton OH, Jun 11 2020.

Hoisington A. (2020). “Mental Health in the Built Environment– Exploring the premise, the perception, and the promise”, Invited presentation to joint meeting of SAME and AIA, Dayton OH, Jun 11 2020.

Hoisington A. (2019). “Altering the Microbiome for Improved Mental Health Outcomes – Exploring the premise, the progress, and the problems”, Invited presentation to University of Leeds, Leeds England, Jul 16 2019.

Hoisington A. (2019). “Altering the Microbiome for Improved Mental Health Outcomes – Exploring the premise, the progress, and the problems”, Invited presentation to St. Elizabeth Hospital and University of Maryland Baltimore, Washington DC, Jan 22 2019.

Hoisington A. (2019). “Understanding microbiome papers through data analysis and figure interpretation”, Invited presentation to St. Elizabeth Hospital and University of Maryland Baltimore, Washington DC, Jan 22 2019.

Hoisington A. (2018). “Altering the Microbiome for Improved Mental Health Outcomes – Exploring the premise, the progress, and the problems”, Invited presentation to Ohio State University Graduate School of Public Health, Columbus OH, Oct 22 2018.

Hoisington A. (2017). “Connecting the personal & built environment microbiomes to mental health”, Invited presentation to Veteran Affairs Hospital, Denver CO, Jan 26 2017.

Hoisington A. (2016). “Advancing our knowledge of microbes and mental health”, Invited presentation to Craig Hospital, Denver CO, Nov 11 2016.

OTHER PAPERS/PRESENTATIONS/POSTERS (total=XX,* = mentored students)

Hoisington AJ, Choy K, Khair S, Dyamenahalli KU, Najarro KM, Wiktor A, Frank DN, Burnham EL, McMahan RH, Kovacs EJ. (2023). “Presence of alcohol impacts microbiota in adult burn injury patients”, Poster presented at *2023 AIRIG*, Aurora, CO, Dec 8, 2023.

Brenner LA, Stamper CE, Stearns-Yoder KA, Haghghi F, Lowry CA., **Hoisington AJ**. (2023). “Alcohol Misuse and Inflammation Among those Seeking Care in the Emergency Department for Acute Mild Traumatic Brain Injury”, Oral presentation at *2023 AIRIG*, Aurora, CO, Dec 8, 2023.

Stamper CE, Brenner LA, Stearns-Yoder KA, Haghghi F, Lowry CA., **Hoisington AJ**. (2023). “Blood-based Biomarkers for Intestinal Permeability: a Pilot Study of US Veterans with and without Posttraumatic Stress Disorder”, Poster presented at *Neuroscience 2023*, Washington DC, Nov 11-15, 2023.

Cominski TP, Stamper CE, **Hoisington AJ**, Torres T, Stamos J, Brenner LA, Beck KD. (2023). “Effects of Mild Traumatic Brain Injury on the Acoustic Startle Response and the Gut Microbiome”, Poster presented at *Neuroscience 2023*, Washington DC, Nov 11-15, 2023.

- Hoisington AJ**, Stamper CE, Stearns-Yoder KA, Postolache TT, Lowry CA, Brenner LA. (2023). “Six Years of Longitudinal Veteran Microbiome Sampling, Major Findings, and Lessons Learned: The United States-Veteran Microbiome Project (US-VMP) Study”, Oral presentation at *2023 Tri-Service Microbiome Consortium*, Washington DC, Sep 26-27, 2023.
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- Hoisington AJ**, Simonetti J, Stamper CE, Stanislawski MA, Stearns-Yoder KA, Postolache TT, Oslin D, Lowry CA., Brenner LA. (2022). “Medications and Microbiomes: Implications for Health and Intervention”, Oral presentation at *2022 Tri-Service Microbiome Consortium*, Fairlee, VT, Sep 27-28, 2022
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- Stamper CE, Stearns-Yoder KA, **Hoisington AJ**, Brostow DP, Postolache TT, Lowry CA, Brenner LA. (2022). “Military-related exposures and the microbiome: The United States Veteran Microbiome Project (US-VMP)”, Oral presentation at 2022 Eastern Colorado Health Care Research Symposium, Aurora, CO, Sep 16, 2022
- Taylor W*, Brenner L, **Hoisington A**. (2021). “Reducing particulate matter in the built environment”, *The Military Engineer*, 113(731), 50-51.
- Spencer R*, Schuldt S, Delorit J, **Hoisington A**. (2020). “Modeling infrastructure robustness and recovery from natural disasters, a case study from Hurricane Michael with recommendations to improve resiliency”, Presentation cancelled due to COVID-19, was scheduled for *2020 World Congress on Resilience, Reliability, and Asset Management*, Bonito, Brazil, Aug 16-19 2020.
- Guerin S*, Paquette R*, Pearson J*, Spencer R*, Yip A*, Silverbush A*, Schuldt S, Delorit J, **Hoisington A**. (2020). “Accurately estimating facility replacement cost and the relationship to infrastructure asset management funding”, Presentation cancelled due to COVID-19, was scheduled for *2020 World Congress on Resilience, Reliability, and Asset Management*, Bonito, Brazil, Aug 16-19 2020.
- Weiss S*, Schuldt S, **Hoisington A**, Delorit J. (2020) “A review of forecast approaches for facility to enterprise-level energy consumption under non-stationary climate and at multiple temporal scales”, Presentation cancelled due to COVID-19, was scheduled for *2020 World Congress on Resilience, Reliability, and Asset Management*, Bonito, Brazil, Aug 16-19 2020.
- Hoisington A**, Beemer C*, Stearns-Yoder K, Schuldt S, Lowry C, Postolache T, Brenner L. (2020). “Development of the Housing, Occupancy, Materials And Environment (HOME) survey to link mental health measures to building factors”, Presentation cancelled due to COVID-19, was scheduled for Indoor Air 2020, Seoul, South Korea, July 20-24 2020.
- Taylor W*, **Hoisington AJ**. (2020). “A framework for estimating the US mental health burden attributable to indoor fine particulate matter exposure”, Presentation cancelled due to COVID-19, was scheduled for Indoor Air 2020, Seoul, South Korea, July 20-24 2020.

- Kohl NT*, Stearns-Yoder KA, Brenner LA, **Hoisington AJ**. (2020). “The influence of residential light on the mental health of U.S. Veterans and Department of Defense personnel”, Presentation cancelled due to COVID-19, was scheduled for Indoor Air 2020, Seoul, South Korea, July 20-24 2020.
- Thomsen NJ, Papazoglou DP, Wagner TJ, **Hoisington AJ**, Schuldt SJ. (2020). “A multi-criteria logistics analysis of photovoltaic modules for remote applications”. Presentation cancelled due to COVID-19, was scheduled for 47th IEEE PVSC Photovoltaic Specialists Conference, Calgary, Canada, Jun 14-19, 2020.
- Taylor WL*, Schuldt SJ, Delorit JD, Chini CM, Stearns-Yoder KA, Postolache TT, Brenner LA, **Hoisington AJ**. (2020). “An epidemiological model to estimate burden of depression from indoor particulate matter”, Presentation cancelled due to COVID-19, was scheduled for *Aerosol 2020*, Braunschweig, Germany May 6-8 2020.
- Hoisington AJ**, Brenner LA, Kinney KA, Postolache TT, Lowry CA. (2020) “Microbiome in the built environment, exploring the interactions between inhabitants, buildings, and the microbiome”, Presented at *39th International Winter-Workshop on Clinical, Chemical and Biochemical Aspects of Pteridines and Related Topics*, Innsbruck, Austria, Feb 25-28, 2020.
- Thomsen N*, **Hoisington AJ**, Schuldt S. (2020). “Sustaining contingency bases through solar power”, *The Military Engineer*, 112(726), 64-65.
- Thurston AK, **Hoisington AJ**, Fisher AR, Rosten SA, Corriveau EJ, Jones RM, Barbato RA. (2020). “Microbiological indicators reflect patterns of life”, US Army Engineer Research and Development Center Technical Report TR-20-22.
- Taylor W*, **Hoisington AJ**. (2019). “The connection between indoor air quality and mental health outcomes”, Poster presentation at *Air Force Civil Engineering Center Design and Construction Symposium*, San Antonio, TX, December 3-5 2019.
- Brenner LA, Stearns-Yoder KA, Forster JE, **Hoisington AJ**, Stamper CE, Postolache TT, Lowry CA. (2019) “Biological signature of an immunomodulatory probiotic intervention for Veterans with mild TBI and PTSD”, Oral presentation at *2019 Tri-Services Microbiome Consortium Symposium*, Dayton OH, Oct 22-24 2019.
- Sharma A, Stamper CE, Maestre JP, Stearns-Yoder KA, Bates KL, Postolache TT, Kinney KA, Brenner LA, Lowry CA, Gilbert JA, **Hoisington AJ**. (2019), “The microbiome of the built environment, an overview of what we know and what we hope to learn from it”, Oral presentation at *2019 Tri-Services Microbiome Consortium Symposium*, Dayton OH, Oct 22-24 2019.
- Taylor W*, **Hoisington AJ**. (2019). “The connection between indoor air quality and mental health outcomes”, Poster presented at *2019 Tri-Services Microbiome Consortium Symposium*, Dayton OH, Oct 22-24 2019.
- Kohl NT*, **Hoisington AJ**. (2019). “How the built environment can influence an individual’s mental health”, Poster presented at *2019 Tri-Services Microbiome Consortium Symposium*, Dayton OH, Oct 22-24 2019.
- Leonard D*, **Hoisington AJ**. (2019), “Detection and quantification of immunomodulatory bacterial species important to health and performance”, Poster presented at *2019 Tri-Services Microbiome Consortium Symposium*, Dayton OH, Oct 22-24 2019.
- Stamper C, **Hoisington A**, Heinze J, Postolache T, Hadidi D, Hoffmire C, Stanislawski M, Lowry C, Brenner L. (2019) “Military-related exposures and the microbiome, the United States Veteran Microbiome Project (US-VMP)”, Poster presented at *Neuroscience 2019*, Chicago IL, October 19-23 2019.
- Brenner LA, Stearns-Yoder KA, Forster JE, **Hoisington AJ**, Stamper CE, Postolache TT, Lowry CA. (2019) “Biological signature of an immunomodulatory probiotic intervention for Veterans with mild TBI and PTSD”, poster presented at *Neuroscience 2019*, Chicago IL, October 19-23 2019.

- Leonard D*, **Hoisington AJ.** (2019), “Detection and quantification of immunomodulatory bacterial species important to health and performance”, Poster presentation at *Military Health System Research Symposium*, Kissimmee FL, August 19-22 2019.
- Sharma A, Stamper CE, Maestre JP, Stearns-Yoder KA, Bates KL, Postolache TT, Kinney KA, Brenner LA, Lowry CA, Gilbert JA, **Hoisington AJ.** (2019), “The microbiome of occupant’s and the built environment at the United States Air Force Academy”, Oral presentation at *Military Health System Research Symposium*, Kissimmee FL, August 19-22 2019.
- Taylor W*, **Hoisington AJ.** (2019). “The connection between indoor air quality and mental health outcomes”, Poster presentation at *ISES ISIAQ 2019*, Kaunas Lithuania, August 18-22 2019.
- Kohl NT*, **Hoisington AJ.** (2019). “How the built environment can influence an individual’s mental health”, Poster presentation at *ISES ISIAQ 2019*, Kaunas Lithuania, August 18-22 2019.
- Hernandez N*, **Hoisington AJ.** (2019) “Modification of the Air Force Base’s Plant Replacement Value due to Hurricane Intensities”, Poster presentation at *Enterprise and Infrastructure Resilience Workshop*, Cincinnati OH, Aug 12-13 2019.
- Spencer R*, Hoisington A. (2019). “Integration of risk assessment techniques within business continuity management of civil infrastructure”, Poster presentation at *Enterprise and Infrastructure Resilience Workshop*, Cincinnati OH, Aug 12-13 2019.
- Spranger Z.*, Ellis A.*, Beemer C.*, Plourde T.*, Jordan R.*, **Hoisington A.** (2019). “Lessons learned in development of a model to reduce lifecycle costs for infrastructure assets”, Oral presentation at *2019 World Congress on Resilience, Reliability, and Asset Management*, Singapore, Jul 27 – Aug 1 2019.
- Moore B.*, Schuldt S., **Hoisington A.** (2019). “Transportation infrastructure performance: A systematic review of transportation performance assessments”, Oral presentation at *2019 World Congress on Resilience, Reliability, and Asset Management*, Singapore, Jul 27 – Aug 1 2019.
- Sharma A, Richardson M, Cralle L, Stamper C*, Maestre JP, Stearns-Yoder K, Bates K, Kinney K, Brenner L, Lowry C, Gilbert J, **Hoisington A.** (2018) “Longitudinal assessment of the influence of lifestyle homogenization on the microbiome in a cohort of United States Air Force Cadets”, Oral presentation at *FEMS 2019*, Glasgow Scotland, July 7-11 2019.
- Yip A.*, **Hoisington A.** (2019). “Efficiently altering a base community to improve physical health in the Air Force”, Oral presentation at *Air Force Civil Engineering 2018 Community Planning Symposium*, San Antonio TX, Jun 24-26 2019.
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- Maestas B*, Elshaw J, **Hoisington A.** (2018) “Defining success in Air Force infrastructure asset management through use of the Delphi Technique”, Oral presentation at *WCEAM-2018*, Norway, Sep 24-26 2018.
- Sharma A, Richardson M, Cralle L, Stamper C*, Maestre JP, Stearns-Yoder K, Bates K, Kinney K, Brenner L, Lowry C, Gilbert J, **Hoisington A.** (2018) “Longitudinal assessment of the influence of lifestyle homogenization on the microbiome in a cohort of United States Air Force Cadets”, Oral presentation at *Indoor Air 2018*, July 24 2018.
- Stamper C*, **Hoisington A.**, Bates K, Stanislawski M, Flux M, Krauter K, Lowry C. (2018). “Spatial and Longitudinal influences on accurately predicting a microbiome biofingerprint”, Oral presentation at *Indoor Air 2018*, July 24 2018.
- Hoisington A.**, Stamper C*, Bates K, Lowry C. (2018). “Spatial and longitudinal influences on accurately predicting a microbiome biofingerprint”. Poster presentation at *2018 American Society of Microbiology Microbe’s Conference*, Jun 9 2018.
- Brenner L, **Hoisington A.**, Stearns-Yoder K, Hoffmire C, Heinz J, Stamper C*, Postolache T, Lowry C. (2018). “Characterization of skin, oral, and gut microbiome among a cohort of US Military Veterans”, Poster presentation at *2018 American Society of Microbiology Microbe’s Conference*, Jun 9 2018.
- Trawick J*, Slagley J, **Hoisington A.**, Eninger R, McKenna E, Williams D. “In-ear dosimetry for behavior modification in impulse and continuous noise environments”, Oral presentation at *DoD/VA Collaborative Auditory and Vestibular Research Network Annual Meeting*, Wright-Patterson AFB, OH, Apr 24-26 2018.
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- Brenner L, Stearns-Yoder K, **Hoisington A.**, Postolache T, Gilbert J, Lowry C. (2018). “Biological signature of an immunomodulatory probiotic intervention for Veterans with mild TBI and PTSD”, Oral presentation at *Federal Interagency Conference on TBI*, Jun 11 2018.
- Hoisington A (2018).** “Recognizing confounding factors for human microbiome toxicology studies”, Oral presentation at *Toxicology and Risk Assessment Conference*, Apr 25 2018.
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- Hoisington A**, Brenner L, Postolache T, Lowry C, Kinney K. (2016). “The microbiome of the built environment and mental health”, Poster presentation at *Indoor Air 2016*, Ghent Belgium, July 6 2016.
- Kinney K, **Hoisington A**, Maestre J, Siegel J, King M. (2016). “Lessons learned: microbiome assessments in non-residential environments”, Oral presentation at *Indoor Air 2016*, Ghent Belgium, July 6 2016.
- Hoisington A**, Brenner L, Postolache T, Lowry C. (2016). “Microbiome of the built environment and mental health, an engineer’s perspective”, Oral presentation at the *5th Annual Microbiome of the Built Environment Symposium*, Boulder CO, June 3 2016.
- Kinney K, **Hoisington A**, Maestre JP, Siegel JA. (2013). “Evaluation of microbial survivability and dna persistence on HVAC filters”, Oral presentation at *2013 Environmental Health Conference*, Basel, Switzerland August 19-23 2013.
- Kinney KA, Maestre JP, King M, Caya A, **Hoisington A**. (2013). “Characterization and source tracking of bioaerosols in residential showers”, Oral presentation at *2013 Environmental Health Conference*, Basel, Switzerland August 19-21 2013.
- Maestre JP, **Hoisington A**, Kinney KA, Siegel JA. (2013). “Effect of fungal barcode selection on the interpretation of the indoor microbiome”, Poster presentation at *American Society for Microbiology 2013 Conference*, Denver CO, May 18-23 2013.
- Kinney KA, **Hoisington A**, Maestre JP, Siegel JA. (2012). “Improving the toolbox for indoor microbiome studies: the environmental/building scientist perspective”, Oral presentation at the *Sloan MBE QIIME/ VAMPS Workshop*, Boulder CO, October 17-18 2012.
- Hoisington A**, Maestre JP, Bae S, King M, Siegel JA, Kinney KA. (2012) “Comparing the indoor microbiome from six different bioaerosol samplers”, Oral presentation at the *31st Annual American Association of Aerosol Research*, Minneapolis MN, October 8-12 2012.
- Hoisington A**, Maestre JP, Siegel JA, Kinney KA. (2012). “Effect of store type, location and season on the microorganisms captured in HVAC filter dust recovered from retail facilities”, Oral presentation at the *31st Annual American Association of Aerosol Research*, Minneapolis MN, October 8-12 2012.

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Hoisington A, Maestre JP, Bae S, King M, Kinney KA. (2012). “Dynamic monitoring of the aerosolized microbiome in shower units”, Poster presentation at the *30th Annual American Association of Aerosol Research*, Orlando FL, October 3-7 2011.

NON-PEER REVIEWED ARTICLES, PRESENTATIONS, POSTERS, AND REPORTS

Tyhurst J*, **Hoisington A**. (2018). “Determining occupancy in dorms and offices through modeling of carbon dioxide respiration”, Poster presentation *Air Force Civil Engineering 2018 Design and Construction Partnering Symposium*, San Antonio TX, Nov 14-15 2018.

Beemer C*, **Hoisington A**. (2018). “The impact of the built environment on U.S. Veteran mental health, a detailed home survey”, presented at *Air Force Civil Engineering 2018 Design and Construction Partnering Symposium*, San Antonio TX, Nov 14-15 2018.

Hoisington A. (2018). “The Cadet microbiome”, VA MIRECC guest podcast recorded and published online.

Roddenberry A*, Holland J*, Sprankle T*, Bates K, **Hoisington A**. (2017). “Understanding the role of the microbiome”. *The Military Engineer*, 109(706), 56-59.

Sprankle T*, Bates K, **Hoisington A**. (2017). “Balancing energy efficiency demands with public health priorities”. *The Military Engineer*, 109(706), 51-52.

Hoisington A. (2016). “The microbiome, old friends, and getting outside”, VA MIRECC Guest Podcast, Aug 5 2016.

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Hoisington, A. (2015). “Climate change: resilience & adaptation – considerations for the future”, *The Military Engineer*, 696, 63-64.

Butcher D*, Barnes B*, **Hoisington A**. (2015). “Analysis of Geographical Effects on the Efficiency of Wind Energy near Colorado Springs”, Presented at the *Colorado Springs Undergraduate Research Forum*, Colorado Springs CO, April 4 2015.

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- Hoisington A.**, Laffely A. (2014). "USAFA energy program", Poster presentation at *2014 Defense Energy Summit*, Austin TX, November 11-13 2014.
- LaPrade K*, **Hoisington A.**, Laffely, A., Henry, K. (2014). "Energy Foundations", Poster presentation at *2014 Defense Energy Summit*, Austin TX, November 11-13 2014.
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- Maestre JP, **Hoisington A.**, Kinney KA. (2012). "Microbial analysis of ZÖN filters", Prepared for Humanscale Corporation, October 2012.
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