

Decker B. Hains, Ph.D., P.E., PMP, F. ASCE
Curriculum Vitae
As of November 2019

Current Position:

Master Faculty Specialist
Jointly Appointed
Department of Civil and Construction Engineering
College of Engineering and Applied Science
and
Department of Management
Haworth College of Business
Western Michigan University
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Kalamazoo, MI 49008

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1. *Name and Academic Rank*

Decker Bradley Hains

Master Faculty Specialist, Jointly Appointed to the Department of Civil and Construction Engineering and Department of Management, Western Michigan University, August 2016 – Present

Previous Academic Positions

Chair, Department of Military Science and Leadership and Professor of Military Science, Western Michigan University, June 2012 – June 2016

Adjunct Assistant Professor of Civil Engineering, Western Michigan University, June 2013- July 2016

Instructor, Part-Time, Department of Civil and Construction Engineering, Western Michigan University, August 2012-Dec 2012 (named Adjunct Assistant Professor in June 2013)

Instructor, Part-Time, Department of Management, Western Michigan University, May 2014- August 2016

Assistant Professor, United States Military Academy, 18 June 2004 – 20 July 2007

2. *Degrees Awarded*

Doctor of Philosophy, Civil Engineering, Lehigh University, 2004

Master of Science, Civil and Environmental Engineering, University of Missouri-Rolla, 1999

Master of Science, Arctic Engineering, University of Alaska Anchorage, 1998

Bachelor of Science, Civil Engineering Major, United States Military Academy, 1994

3. *Teaching Experience*

Courses taught at Western Michigan University

CCE6960, Advanced Topics in Civil Engineering, Advanced Project Management and Scheduling (Fall 2017)
CCE6960, Advanced Topics in Civil Engineering- Leadership for Engineers (Spring 2017, Summer I 2017, Summer II 2018, Summer I 2019)
CCE4830, Project Design and Control (every semester from Spring 2014 – present)
CCE4850, Senior Project (every semester from Spring 2014 – present)
CCE4340, Hydraulics (Fall 2013)
CCE4350, Hydrology (Fall 2012)
CCE4310, Construction Planning and Scheduling (Fall 2018)
CCE3860, Structural Analysis (Spring 2016, Spring 2017, Spring 2018, Spring 2019)
CCE3360, Soil Mechanics (Fall 2016, Summer I 2018, Summer I 2019)
CCE3350, Water Resources Engineering (Fall 2014, Fall 2015, Fall 2016, Fall 2017, Fall 2018, Fall 2019)
CCE3330, Construction Codes, Specifications, and Contracts (Spring 2018, Spring 2019)
EM6140, Project Management (Fall 2016, Summer II 2018, Spring 2019)
MGMT6370, Transformational Leadership (Summer I 2018)
MGMT6000, Management Seminar- Transformational Leadership (Summer I 2016, Spring 2017)
MGMT4020, Leadership in Business Organizations (Summer 2014, Spring 2015, Summer 2015, Spring 2016, Summer I 2016, Fall 2016, Fall 2019)
MGMT4000, Management Seminar - Experiential Leadership for Business Professionals (Summer I 2017)
MGMT2750, Analytical Foundations (Spring 2017- present)
BUS4500, Business Ethics and Sustainability (Fall 2019)
BUS3750, Business Process Productivity (Summer II 2019)
MSL4020, Mission Command and the Company Grade Officer (Spring 2015, Spring 2016)
MSL4010, Mission Command and the Army Profession (Fall 2014, Fall 2015)
MSL4020, Leadership in a Complex World (Spring 2013 and Spring 2014)
MSL4010, Developing Adaptive Leaders (Fall 2012 and Fall 2013)

Courses taught at the United States Military Academy, Department of Civil & Mechanical Engineering:

CE499, Independent Study in Civil Engineering (Spring 2007 and Spring 2006)
CE380, Hydrology & Hydraulic Design (Spring 2006 and Spring 2007), Course Director
CE300, Fundamentals of Engineering Mechanics & Design (Spring 2005, Fall 2005, Fall 2006)
ME362, Fluid Mechanics (Fall 2004)

Courses taught at Lehigh University, Department of Civil & Environmental Engineering:

CEE321, Open Channel Hydraulics (Spring 2004)
CE121, Engineering Fluid Mechanics (Fall 2001, Fall 2002, Fall 2003), Teaching Assistant
CE222, Hydraulic Engineering, (Spring 2002, Spring 2003, Spring 2004), Teaching Assistant

4. ***Related Experience and Professional Schools***

Leadership Positions and Military Assignments:

Professor of Military Science, Western Michigan University, (2012- 2016)
Design Engineer, 555th Engineer Brigade, Joint Base Lewis-McChord (2011-2012)
Deputy Commander, US Army Corps of Engineers, Walla Walla District (2009-2011)
Chief, Military Transition Team, Baghdad, Iraq (2008-2009)
Engineer Company Commander, Korea (1999-2001)
Assistant Brigade Operations Officer, Korea (1999)
Battalion Logistics Officer, Fort Richardson, AK (1997-1998)
Engineer Company Executive Officer, Fort Richardson, AK (1996-1997)
Engineer Platoon Leader, Fort Richardson, Alaska (1994-1996)

Professional Schools:

Command & General Staff College (2007-2008)
Combined Arms and Services Staff School (1999)
Engineer Officer Advanced Course (1997)
Engineer Officer Basic Course (1994)

5. ***Areas of Active Research***

Engineering Education and the Engineering Profession
Leadership and Organizational Development
Scour at Bridge Piers and Sediment Transport

6. ***Professional Certifications***

Professional Engineer, State of Missouri, 1999-2017
Professional Engineer, State of Michigan, 2016- present
Certified Project Management Professional, 2008- present

7. ***Principal Publications***

Peer-Reviewed Journal Papers

Hains, Decker B. and Leonard J. Zabilansky. "Schoharie Creek Bridge Collapse- Scour Under Ice as a Contributing Factor." *Hydrological Science and Technology, Journal of the American Institute of Hydrology*, 22(1-4), 66-69, January 2007.

Hains, Decker, Bret Wagner, Decker B. Hains, Melissa L. Intindola, and Douglas A. Lepisto. "Scrimmage! Teaching Quantitative Literacy through a Multidimensional Simulation." *The International Journal of Management Education* (17) 2019 119-129, January 2019

Journal Papers

Hains, Decker B. "Thoughts on Advising Iraqi Security Forces Using an Organizational Development Approach." *Small Wars Journal (smallwarsjournal.com)*, 9 June 2009.

Peer-Reviewed Conference Papers/Presentations

Hains, Decker B., Fridley, Kenneth J., et.al. "The Evolution of the Civil Engineering Body of Knowledge: From the First Edition to the Third Edition." Proceedings of the 2019 ASEE National Conference, Tampa, FL, June 15-19, 2019.

Fridley, Kenneth J., Hains, Decker B., and Nolen, Leslie. "The 5Ws of the Third Edition of the Civil Engineering Body of Knowledge." Proceedings of the 2019 ASEE National Conference, Tampa, FL, June 15-19, 2019.

Bielefeldt, Angela, Barry, Brock, Hains, Decker B., et. al. "Constituent Input in the Process of Developing the Third Edition of the Civil Engineering Body of Knowledge (CEBOK3)." Proceedings of the 2019 ASEE National Conference, Tampa, FL, June 15-19, 2019.

Dennis, Norman D., and Hains, Decker B. "Achieving the Civil Engineering Body of Knowledge in the Affective Domain." Proceedings of the 2019 ASEE National Conference, Tampa, FL, June 15-19, 2019.

Fridley, Kenneth J., Hains, Decker B., Morse, Audra, and Nolen, Leslie. "The CEBOK3 and ABET Accreditation Criteria: A Gap Analysis." Proceedings of the 2019 ASEE National Conference, Tampa, FL, June 15-19, 2019.

Fridley, Kenneth J., Hains, Decker B., et. al. "The Third Edition of the Civil Engineering Body of Knowledge: An Update and Overview." Proceedings of the 2018 ASEE National Conference, Salt Lake City, UT, June 24-27 2018.

Hains, Decker B., Fridley, Kenneth J., et. al. "Revising the Civil Engineering Body of Knowledge (BOK): The Application of the Cognitive Domain of Bloom's Taxonomy." Proceedings of the 2018 ASEE National Conference, Salt Lake City, UT, June 24-27 2018. (ASEE Civil Engineering Division Best Paper Nominee)

Dennis, Norman D., Hains, Decker B., and Brandes, Horst. "Assessing the Civil Engineering Body of Knowledge in the Affective Domain." Proceedings of the 2018 ASEE National Conference, Salt Lake City, UT, June 24-27 2018. (ASEE Civil Engineering Division Best Paper Nominee)

Hains, Decker B. and O'Conner, Michael. "The Civil Engineering Body of Knowledge: Supporting ASCE's Grand Challenge." Proceedings of the 2018 ASEE National Conference, Salt Lake City, UT, June 24-27 2018.

Hains, Decker B. and Bret Wagner. "Leadership for Engineers: A Course for Developing Professional and Business Skills for Engineers." Proceedings of the 2018 ASEE National Conference, Salt Lake City, UT, June 24-27 2018.

Fridley, Kenneth J., Hains, Decker B., et. al. "Is It Time for a Third Edition of the Civil Engineering Body of Knowledge (BOK)?" *Proceedings of the 2017 ASEE National Conference, Columbus, OH, June 25-28 2017.*

Hains, Decker and Bret Wagner. "Teaching Quantitative Analysis Through Repeated Business Simulations." (Abstract and Presentation) *Proceedings of 2017 Midwest Decision Sciences Institute Annual Conference, Grand Rapids, MI, April 7, 2017.*

Hains, Decker B., Ressler, S.R. and M. Evans. "Teaching the BOK- Challenges for Faculty and Programs." *Proceedings of the 2007 ASEE National Conference, Honolulu, HI, June 24-27 2007.* (Winner of the 2007 ASEE National Conference Best Paper Award for Professional Interest Council I)

Klosky, J. L., Hains, Decker B., et al. "An Integrated Approach for Engineering Mechanics and Design." *Proceedings of the 2007 ASEE National Conference, Honolulu, HI, June 24-27 2007.*

Hains, Decker B. and Leonard J. Zabilansky. "Scour Under Ice: Potential Contributing Factor in the Collapse of the Schoharie Creek Bridge." *Proceedings of the 13th International Conference on Cold Regions Engineering, University of Maine, Orono, Maine, July 23-26, 2006.*

Hains, Decker B., Remus, John I. and Leonard J. Zabilansky. "Increased Bed Erosion Due to Ice." *Proceedings of the 13th International Conference on Cold Regions Engineering, University of Maine, Orono, Maine, July 23-26, 2006.*

Klosky, J. L., Hains, Decker B, et al. "AIM for Better Student Learning: Best Practices for Using Instant Messaging and Live Video to Facilitate Instructor-Student Communication." *Proceedings of the 2006 ASEE National Conference, Chicago, June 18-21 2006.*

Hamilton, Scott, Conley Chris, and Hains, Decker B. "ASCE Student Chapters: A Contributor to Achieving Program Goals." *Proceedings of the 2006 ASEE National Conference, Chicago, June 18-21 2006.*

Hains, Decker B. and Leonard J. Zabilansky. "The Effects of River Ice on Scour and Sediment Transport." *Proceedings of the 13th Workshop on the Hydraulics of River Ice, CGU HS Committee on River Ice Processes in the Environment, Hanover, NH, September 15-16, 2005.*

Zabilansky, Leonard J. and Decker B. Hains. "Ice Cover Effects of Scour in Narrow Rivers." *Proceedings of The Third International Conference on Remediation of Contaminated Sediments, New Orleans, Louisiana, January 24-27, 2005.*

Hains, Decker B., Zabilansky, Leonard J. and Richard N. Weisman. "An Experimental Study of Ice Effects at Bridge Piers." *Proceedings of the Cold Regions Engineering & Construction Conference and Expo, Edmonton, Alberta, Canada, May 16-19, 2004.*

Other Publications

Hains, Decker B. "An Experimental Study of Ice Effects on Scour at Bridge Piers." Ph.D. Dissertation, Lehigh University, Bethlehem, PA 2004.

Hains, Decker, and Leonard Zabilansky (2004) Laboratory Test of Scour Under Ice: Data and Preliminary Results. ERDC/CRREL TR-04-9

Workshops

"Discover Leading" Workshop, March 5-7, 2018, sponsored by the WMU Geogreau Construction Research Institute

Wagner, Bret and Decker B. Hains. "Teaching Quantitative Analysis through Repeated Business Simulations." *48th Annual Meeting of the Decision Sciences Institute, Washington, DC, November 18-21, 2017.*

Wagner, Bret and Decker B. Hains. "Analytics Workshop with Scrimmage SIM Business Simulation. *60th Annual Meeting of the Midwest Academy of Management, Chicago, IL, October 19-21, 2017.*

8. *Membership in Scientific, Professional and Honor Societies*

American Society of Civil Engineers (ASCE)
American Society for Engineering Education (ASEE)
Project Management Institute (PMI)
Academy of Management (AOM)
Society of American Military Engineers (SAME)
Order of the Engineer
Army Engineer Association (AEA)
Association of the United States Army (AUSA), Life Member
Military Officers Association of America (MOAA)
Member, Fritz Engineering Research Society (FERS), Lehigh University since 2001
Member, Tau Beta Pi, The National Engineering Honor Society, since 1999
Member, Chi Epsilon, The National Civil Engineering Honor Society, since 1999
Member, The Honor Society of Phi Kappa Phi, since 1993

9. Honors and awards

Academic and Professional

Fellow, American Society of Civil Engineers, 2019
Bronze De Fleury Medal, US Army Engineer Association, 2012
Best Paper Award for Professional Interest Council I, 2007 ASEE National Conference
Excellence in Civil Engineering Education (ExCEED) New Faculty Excellence in Teaching Award,
ASCE Committee on Faculty Development, 2007
Gerald R. Seeley Fellowship for the Best Conference Paper by faculty with fewer than 5 years
teaching experience, ASEE Civil Engineering Division, June 2007
Finalist, Peter S. Michie Outstanding Teacher Award, Dept of Civil & Mechanical Engineering,
USMA, 2007
Finalist, Jared Mansfield Outstanding Teacher Award, Dept of Civil & Mechanical Engineering,
USMA, 2006
Distinguished Cadet (Top 5%), United States Military Academy, 1994
Dean's List, United States Military Academy, 1990-1994

Military

Bronze Star Medal
Meritorious Service Medal (4 awards)
Army Commendation Medal (2 awards)
Army Achievement Medal (4 awards)
National Defense Service Medal (2 awards)\
Iraq Campaign Medal
Global War on Terrorism Service Medal
Korean Defense Service Medal
Army Service Ribbon
Overseas Service Ribbon (3 awards)
Meritorious Unit Commendation (2 awards)

10. Institutional and professional service

Chair, WMU Essential Studies Course Review and Approval Committee, September 2018 – Present
Vice Chair, WMU Essential Studies Executive Advisory Committee, May 2018 – Present
Director, WMU Faculty Senate Executive Board, May 2019 – Present
Chair, WMU College of Engineering and Applied Sciences Curriculum Committee, April 2019 – Present
Member, WMU Shared Gold Committee, September 2017 – Present
Chair, WMU Committee to Oversee General Education, (September 2016-September 2018)
Member, College of Engineering and Applied Sciences Strategic Planning Committee, WMU, 2016
Chair, Ad Hoc Committee on General Education, Western Michigan University, (2013- 2014)
Member, Ad Hoc Committee on General Education, Western Michigan University, (2013-2016)
Faculty Advisor, Chi Epsilon, The National Civil Engineering Honor Society Chapter, Western Michigan
University, (2014 – Present);
Member, USMA Faculty Council (August 2005- May 2007)
Professional Military Ethics Education Team Member, Company G1, USCC (2004-2007)
Department Academic Counselor (2004-2007)
Company Academic Counselor, Company C2 (2006-2007)

11. Professional Development and Institutional Support Activities

Invited Seminar Speaker, “Civil Engineering Body of Knowledge: Preparing the Future Civil Engineer,
Third Edition”, ASCE 2019 Convention, October 12, 2019

Editor (senior leadership position), American Society of Civil Engineers (ASCE) Third Edition of the
Body of Knowledge Committee, June 2016 – May 2019

Presentation to the ASCE Board of Direction on the Third Edition of the ASCE Body of Knowledge,
October 12, 2018 in Denver, CO

Invited Speaker, Steelcase Custer Office Environment Lecture Series: Be Inspired, “Hiring Heroes to Better Your Organization”, November 10, 2017

Invited Keynote Speaker, 2018 ASCE Regional Conference, WMU, April 7, 2018

Program Mentor, Emerging Leaders Development Program, Food Marketing Department, Haworth College of Business, April 2017 and October 2017

Presentations for WMU’s Global Business Center Professional Development Programs, Conferences on Dynamics of Innovative Engineering, Management, Leadership and Business Strategies:

- *Creativity and Innovation in Leadership and Transformational Leadership*, Chicago, IL, January 23, 2016
- *Effective Engineering and Business Process Management, Transformational Leadership, Creativity and Innovation in Leadership*, and *Total Quality Management*, Nashville, TN, February 20-21, 2016
- *Lean Six Sigma (Green Belt)*, Bowling Green, OH, February 27-28, 2016
- *Effective Engineering and Business Process Management and Total Quality Management*, Charlotte, NC, April 16, 2016

Significant Public Speeches and Presentations as Chair, Department of Military Science and Leadership:

- “Army ROTC at WMU” at WMU’s Mercantile Bank of Michigan Breakfast Speaker Series, March 2016
- “WMU’s Army ROTC” at the Military Officers Association of America, Army and Navy Club of Grand Rapids Chapter, April 2014 and April 2016
- Keynote Speaker for Veteran’s Day Celebration, PNC Bank Regional Headquarters, Kalamazoo, November 2014, 2015 and 2016
- Keynote Speaker for the Veteran’s Day Awards Assembly, Jonesville, MI, November 2013
- Keynote Speaker for Memorial Day, Portage, MI, May 2015 and Dowagiac, MI, May 2013

Haworth College of Business Staff Retreat, Leadership Presentation, August 2015

Leadership Development Program, United States Army Corps of Engineers, Walla Walla District, August 2010-August 2011

Journal of Professional Issues in Engineering Education and Practice, ASCE, Reviewer, 2009-present
ASEE National Conference, Paper Reviewer, 2009-present

Member of the American Society of Civil Engineers Second Edition of the Body of Knowledge Committee, September 2005- February 2008

Faculty Development, Instructor Summer Workshop, West Point, NY, July 2007

Master Teacher Certificate Program Graduate, May 2006

Instructor Summer Workshop, West Point, New York, June-July, 2004.

Assistant Mentor, Excellence in Engineering Education (ExcEEd) Teaching Workshop, July 2004.

12. Civic Service and other Professional Activities

Executive Board Member, Southwest Chapter of the American Red Cross (June 2013 – present)

Vice President, Kalamazoo Lacrosse Officials Association (January 2015 – present)

Vice President, VanKal Officials Association (October 2019 – present)

Executive Board Member, VanKal Officials Association (March 2014 – present)

Sports official, August 2001 – present, officiating basketball, football, boys lacrosse, and soccer for youth and high school teams