

Brian H. Stone, Ph.D.

Associate Professor
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Department of Engineering Technology
College of Business and Technology
Western Illinois University

EDUCATION:

- 2012 Ph.D. Construction Management - School of Sustainable Engineering and the Built Environment, Arizona State University – Tempe, Arizona.
- 1998 M.B.A. Business Administration, Small Business Management Emphasis
University of Utah – Salt Lake City.
- 1997 B.S. Business Management, Human Resource Management Emphasis,
Minor in Spanish
Brigham Young University – Provo, Utah.

ACADEMIC EXPERIENCE:

- 2012-Present** Associate Professor
Construction Management & Engineering Technology
College of Business and Technology
Western Illinois University

RELATED PROFESSIONAL EXPERIENCE:

2009 – 2012 Project Manager, Research Assistant and Teacher Assistant
Department of the Performance Based Studies Research Group. Trained and educated procurement clients in Best Value practices in purchasing within the built environment. Created training documents and videos teaching case studies and theories for website modules.

1998 – 2011 President, Owner of GC Company: Stone Mountain Construction Inc.

Conducted day-to-day project management and marketing on all work at several U.S.

Federal clients around the state of Utah, Religious chapels and Temples in Utah and Washington. Formed original company and wrote business plan for government and LDS Facilities contracting. (Brochures available upon request of work history)

2005 – 2006 Assistant Director of Operations at Tyler's Incorporated Ready Mix Concrete Company. Produced cost analysis and break even models for concrete ready-mix. Designed and built retrofit system with FastWay Batch Plant equipment. Formulated engineered concrete mix designs and oversaw break tests. Designed and implemented literature and marketing ads for company.

1997-2001 Licenced Real Estate Agent

State of Utah. Trained for licence through BYU Marriott School of Business Program Real Estate course and received further Training through a Graduate-Level Real Estate Appraisal course at the University of Utah.

1996-1997 Electrician's Assistant

Brigham Young University electrical shop. Assisted in overseeing maintenance of all campus exterior lighting and timer clock maintenance, campus and surrounding recreational fields and other miscellaneous construction projects. Repairs and new construction of all parking, traffic and exterior lighting of the campus.

1993 – 1994 Bilingual Tour Guide

Polynesian Cultural Center in Laie, Hawaii. Accompanied groups of 2 – 50 people on tours of the Cultural Center grounds lasting between 1 -6 hours per day. Introduced and explained each of the 6 major villages in Spanish and English.

1992 Electronic Technician

Industry West Electronics in Orem Utah. Circuit board assembly of components for podium risers, sliding drawer microphones and portable microphone amplifier speaker sets. Manufacturing Quality Control & Technical manual writing.

1982 - 1994 Construction Laborer

Summer employment included full home remodel, commercial/industrial renovations, ranch hand, residential and commercial painter, various commercial location projects.

PROFESSIONAL QUALIFICATIONS

- General Contractors License in Utah (B100) 1998-2011 and in Washington (approx.) 2005 - 2008
- Licensed Real Estate Agent in the state of Utah from 1997 – 2001
- Fluent in Spanish Language
- Commercial Drivers License Class “A” - Concrete Ready Mix and Dump Truck Driving Experience
- FAA 107 Drone Licence

- Currently approved and in Training for OSHA Safety outreach instructor in Construction. (Expected completion date by Summer 2020).

TEACHING

University Teaching Courses:

- ET 105: Introduction to Graphics Communication (With Online component)
- CSTM 132: Construction Management Introduction/Lab (With Online component)
- CSTM 236: Surveying in Construction
- ETL 535: Leadership in Engineering Technology - *New Developed Course 2013*
- CSTM/ET 356: Introduction to Power Systems
- CON 383: Estimating in Construction
- ETL 545: Information Measurement Theory - *New Developed Course Spring (2015)*
- CSTM 132: Construction & Facilities Management. - *New Developed Course (2015)*
- CSTM 440: Green and Sustainable Construction (Summer 2015 Online course)
- GCOM 430: Internship Course
- CSTM 430: Construction Estimating
- CSTM 433: Construction Law
- CSTM 470: Facilities Management Capstone Course, *New Course - Spring 2016*
- ETO 580: Independent Study Graduate Student Advisor
- ETL 580 - Independent Study Undergraduate Advisor

Other Teaching:

- **1995 – 1996 Seminary Instructor** (Church Education System – Church of Jesus Christ of Latter Day Saints), Payson High School. Instructed High School aged students in Old Testament studies for academic year. Graded students on attendance and progress in study.
- **1994 -1995 Language and Teaching instructor** at Missionary Training Center (Church of Jesus Christ of Latter Day Saints) in Provo, Utah for 12 months. Teaching Spanish language fluency, personal presentation skills and gospel principles to full time missionaries.
- **1992 Math lab tutor** for beginning college math courses at Utah Valley State College (Now Utah Valley University). Orem, Utah.

Teaching Summary:

- Taught over 800 university-level students in construction/engineering courses with an average student rating higher than 4.5/5.0.
- Created 3 new graduate-level courses and added curriculum
- Modified a 100-level construction management course to include a Facilities Management modules and an additional credit hour of workload.
- Created and taught a new undergraduate capstone course in Facilities Management CSTM 470.
- Created online hybrid sections for 2 courses (CSTM 132 and 105) with online

lectures and labs.

Program and Curriculum Development Activities:

- ***Organized and helped to approve a program title change from “Construction Management” to “Construction and Facilities Management”.***
Collaborated with CM faculty to promote, establish and formalize the Facilities Management integration into the existing Construction Management system. Pending university senate approval would make changes active in Fall 2019.
- ***Developed a New Option of Study curriculum track in Facility Management -***
Developed, proposed and received university approval for a new undergraduate Option of Study in Facility Management, in conjunction with industry members and the Facility Management program at Arizona State University. This option included the planning of a 4-course curriculum covering FM categories – Fall 2012-Current.
- ***Developed graduate-level course in Leadership and Technology (ETL 535) -***
Developed, proposed and received university approval for the implementation of a course in leadership that is specific to the areas of project management within the Engineering, Construction and Facilities Management fields. -- Fall 2013.
- ***Developed graduate-level course in Information Measurement Theory (ETL 545) -*** Developed, proposed and received university approval for a new course which teaches practices in gathering, prioritizing assessing industry data in order to make educated Project Management decisions in Construction, Facilities Management and Operations environments -- Spring 2015
- ***Developed an Introduction to Construction & Facilities Management Course (CSTM 132) -*** Creation of a course which introduces students to an array of processes, systems and vocabulary within the areas of Construction and Facilities Management -- Fall 2015.
- ***Currently developing an undergraduate online course in Graphics Communication (ET 105) -*** Includes the filming, editing and presenting of course instruction for introductory students in drafting, sketching and engineered drawing using Autodesk and Camtasia software -- Fall 2017.
- ***Developed capstone course in Construction Facilities Management (CSTM 470) -*** Includes the development of culminating curriculum for undergraduate construction management students in the Facilities Management option-of-study students in the Construction Management major -- Winter 2017.
- ***Ongoing developmental work with Arizona State University*** in their online Facilities Management (FM) program as it relates to the undergraduate needs of Western Illinois University’s expansion of an Option of Study program in FM
- Instituted and integrated the use of **Drone Technology into the Construction Surveying** course as well as Facilities Management research.

PUBLICATIONS

Refereed Archival Journal Papers:

Cluff, C., Stone, B., Sullivan, K. and Smithwick, J., (2017). "Nauvoo Illinois Historic Site: A Facilities Management Perspective," *Journal of Facility Management Education and Research*. DOI: <https://doi.org/10.22361/jfmer/78725>

Paper submitted and presented at Associated Schools of Facilities Management conference. Reference: Stone, B., Perrnoud, A., Diez, Clayton., (2016). Developing A More Sustainable Identity Demographic of Potential Facilities Management Students: Linking the Supply of Workforce With Market Demand. *ASFM International Educators Conference 2016*, April 13, Provo, Utah, USA.

Stone, B. H., & Hunter, G. (2015). Charting a Path towards IFMA Accreditation in Universities. *Journal of Facilities Management*, 6(1). Retrieved March 1, 2016, from <http://ijfm.net/index.php/ijfm/issue/view/13>

Stone, B. H., & Cluff, C. (2015). Developing a Planned Maintenance Program That Aims Towards a Preventative Mindset: A Case Study in Facilities Management Leadership. *Journal of Facility Management*, 6(1). Retrieved March 1, 2016, from <http://ijfm.net/index.php/ijfm/issue/view/13>

Stone, B., Perrenoud, A., Sullivan, K. (2014) Rescue Management of a Failed Project: An Empirical Case Study of the Subordinate Expertise Empowerment (SEE) Model. *Journal for the Advancement of Performance Information & Value*, 6(1), 1-21.

Lines, B., Sullivan, K., and Stone, B. (2013). "Organizational Implementation of Best Value Project Delivery: Impact of Value-Based Procurement, Pre Planning, and Risk Management." *Journal for the Advancement of Performance Information & Value (CIB Encouraged Journal)*, Volume 5, Issue 1, pp. 1-19.

Refereed Conference Proceedings Papers:

Presentation submitted and accepted, International Facilities Management Association World Workplace Conference. Reference: Stone, B., Bown, M., Smithwick, J., (2019). Roof Inspection Protocol with Unmanned Aerial Vehicles, Paper presented at the 2019 World Workplace Conference (IFMA), Phoenix, AZ, USA October 17, 2019.

2017 November -- Presentation submitted and accepted, International Facilities

Management Association World Workplace Conference. Reference: Stone, B., Bodily, J. (2017). Integrating the Volunteer & Employed Workforce in Ecumenical Facilities Management, Paper presented at the 2017 World Workplace Conference (IFMA), Houston TX, USA October 18-20, 2017.

2017 November -- Presentation, International Facilities Management Association World Workplace Conference. Reference: Stone, B., Bodily, J. (2017). Managing & Outsourcing Specialized Craftsmanship in Historical Facilities Maintenance: A Case Study of the Nauvoo Historical Facilities Management, Paper presented at the 2017 World Workplace Conference (IFMA), Houston TX, USA October 18-20, 2017.

2013 November -- Stone, B., Sullivan, K. (2013). Finding Standards in Organizational Change: A Workforce Development Empirical Study, Paper presented at the 2013 Association of Technology, Management and Applied Engineering (ATMAE) Conference, New Orleans LA, USA November 20-23, 2013.

2012 September -- Paper submitted and read at COBRA conference. Reference: Sullivan, K., Lines, B., Stone, B., Stewart, B., Warren, H. (2012). Change Management Principles: Best Value Implementation Case Study. *RICS International Research Conference 2012*, September 10-13, Las Vegas, Nevada, USA, p. 1103-1111.

2012 September -- Perrenoud, A., Stone, B.H., Sullivan, K. and Savicky, J. (2012). Case Study: The Implementation of a Performance Metric System in a Capital Improvement Organization, Paper presented at 2012 RICS International Research Conference, Las Vegas NV, USA September 10-13, 2012, pp. 1103-1111.

2012 Smithwick, J., Sullivan, K. and Stone, B. (2012) "Risk Management Structure for Value-Based Commodity Contracts." RICS International Research Conference, Las Vegas, NV, September 11-13, 2012.

Other Publications (Non-Refereed):

Facilities Management Feasibility Study developed for the University Senate, College of Business Technology and Department of Engineering Technology. Hunter, D., Diez, R., Carter, R., Erekson, T., Stone, B. (2014) Western Illinois University. College of Business and Technology & the School of Distance Learning Feasibility Study. Retrieved from https://docs.google.com/document/d/1pQHTZFfLiiSL8Amx_IHy4fvH03-xIPb8cmGtHd-u49I/edit?usp=sharing

State of Utah Trust Land Real Estate Assessment. Study involved the assessment of residential property demand relating to current development in the St George, Utah area. Graduate student team authored and presented the assessment to the representing State Trust Lands Attorney. (1998).

CONFERENCE PRESENTATIONS & GUEST LECTURES

Paper presented at the 2019 Associated Schools of Facilities Management (ASFM), Research Colloquium. Stone, B., Bown, M., Smithwick, J., (2019). Roof Inspection Protocol with Unmanned Aerial Vehicles, Arizona State University - Downtown Phoenix Campus, AZ, USA October 15, 2019.

Webinar Presentation, & Associated Schools of Facilities Management and International Facilities Management Association. Stone, B., Smithwick, J., Bown, M., (2019). The Use of Drone Technology in Roofing Inspections. July 26, 2019. Broadcasted from Provo, Utah.

Presented at Associated Schools of Facilities Management (ASFM/IFMA) Colloquium. Stone, B., Smithwick, J., Bown, M., (2018). UAV Training in Academia & the Workforce. October 2, 2018. Charlotte, North Carolina.

Presented at the Associated Schools of Facilities Management (ASFM/IFMA) Conference. Stone, B., Bodily, J., (2017). Integrating the Volunteer and Employed Workforce in Ecumenical Facilities Management. October 19, 2017. Houston, Texas.

Presented at the Associated Schools of Facilities Management (ASFM/IFMA) Conference. Stone, B., Bodily, J., (2017). Managing and Outsourcing Specialized Craftsmanship in Historical Facilities Maintenance. October 19, 2017. Houston, Texas.

Presentation at the Associated Schools of Facilities Management (ASFM/IFMA) Conference. Stone, B. (2016). Western Illinois University CSTM/FM Program Overview. April 13, 2016. Provo, Utah.

University Senate Meeting Presentation on Cloud-based applications usage on campus for curriculum development and teaching. Western Illinois University, November 11, 2014.

Guest Lecturer - Brigham Young University Construction Management Student Lectures in Fall 2011 & Spring 2015. Presentations on Construction Labor and Contract Specifications.

Peer-reviewed Presentation at ATMAE conference. Reference: Stone, B., (2014). Teaching from the Cloud: Using Zero-Cost Technology for Research, Writing & Teaching. Presented at the 2014 Association of Technology, Management and Applied Engineering (ATMAE) Conference, St. Louis, MO, USA November 21, 2014.

Peer-reviewed Presentation at Association of Technology, Management and Applied Engineering (ATMAE) conference November 2013. Title: Finding Standards in

Organizational Change: A Workforce Development Empirical Study. New Orleans LA, USA November 20-23, 2013.

Peer-reviewed Presentation at ATMAE conference. Reference: Stone, B., Diez, C., (2013). Leadership Curriculum Development: The New "Management" in Applied Engineering Classrooms, Presented at the 2013 Association of Technology, Management and Applied Engineering (ATMAE) Conference, New Orleans LA, USA November 20-23, 2013.

Presentation at the Best Value Conference. Reference: Stone, B. (2011). Project Salvage: Application of a Project Management model to a Digital Documenting Service failed contract. Canon USA, Inc. February 9, 2011. Tempe, Arizona.

PROFESSIONAL AND SCIENTIFIC ACTIVITIES

Scientific and Professional Society Memberships:

- Member of the Association of Technology, Management and Applied Engineering (ATMAE), 2013-2015.
- Member of the International Technology and Engineers Education Association (ITEEA), 2014-2015.
- Member of the International Facilities Management Association Academic Studies Group 2015.
- Member of the Associated Schools of Facilities Management (ASFM) 2015-2020.

BOOK CHAPTER

2011 January -- Assisted in authoring chapter 12 in a construction management and leadership textbook titled "The DNA of Leadership" under the direction of Dr. William Badger. Reference: Badger, B. (2011). The DNA of leadership. Tempe: Sun Devil Digital.

JOURNAL & SCHOLARLY WORK REVIEWING

Thesis review committee - Jordan Bodily, Arizona State University MS Degree - Exploratory Study of the Use of Unmanned Aerial Vehicles for Building Inspection: A Roofing Inspection Case Study, (Scheduled for January 2020)

Thesis review committee - Andrew Rennert, Arizona State University MS Degree - Computerized Maintenance Management Systems: Misconceptions Between Management and Employees, (December 2019)

Thesis review committee - Mike Rice, Arizona State University MS Degree - Application of Transaction Cost Economics within the Facilities and Construction Industry to

Improve Project Outcomes: A Case Study Approach, (November 2019)

Undergraduate thesis review committee - Kathryn Ferguson, Western Illinois University
Undergraduate Honors Degree - (Scheduled for December 2018)

Graduate Independent Research Project Committee Reviewer - Kar Eee Ho - Graduate
Degree Requirements, Western Illinois University - Investigation of Water pH in
Plumped Permanent Emergency Eyewash Station, (July 2017)

Thesis review committee - Billy Thalin, Arizona State University MS Degree -
Transitioning Workspace Environments from a FM Perspective, November 2017

Thesis review committee - Casey Cluff, Arizona State University MS Degree- Nauvoo
Illinois Historic Sites: A Facilities Management Perspective, April 2017

Thesis review committee - Sanjeeta Naupane Ghimire - Western Illinois University,
December 2016 - Measuring effects of window size on indoor temperature: An analysis
using scale model houses (independent research)

Reviewer, Associated Schools of Construction (ASC) Seattle conference, Spring 2017

2015, 2016, 2017, 2018, 2019 - Reviewer of the Associated Schools of Facilities
Management Journal (ASFM).

Spring 2017 & 2018 - Reviewer of the Journal of Facilities Management (JFMER).

2013 & 2016 - Reviewer of the CIB International Council for Research and Innovation in
Building and Construction, an affiliate of the CIB W117.

2015 - Reviewer of the Construction Research Congress (CRC) call for research papers..

2015 - International Facilities Management Association A&R Reviewer (IFMA).

Fall 2015 - Reviewed papers for the Journal of Advancement of Performance
Information and Value (JAPIV).

CONFERENCES ATTENDED (NON PRESENTATION)

May 2013 & 2014, Attended the annual Chick-Fil-A leadercast training via satellite
location in preparation for teaching graduate-level leadership course.

June 2013 Attended a training “boot camp” by the Mechanical Electrical Academic
Consortium in preparation for teaching courses in Plumbing, HVAC and Power Systems
at Kansas State University.

ACADEMIC & COMMITTEE SERVICE

International Level

- Vice president of Research, Simplar Institute - simplar.com (2016-2020)
 - International collaboration of researchers that focus on helping procurement teams with organizational change, optimized practices and efficiency and overall research between the client/contractor relationship.

University Level:

- University Technology Advisory Group Committee (UTAG)
 - Department representative to the committee in 2019. Provide University Technology with advice and direction in the implementation of departmental priorities and those from the Institutional Strategic Plan for Technology.
- University Council on Campus Planning & Usage (CCPU)
 - Elected to Council as a representative of the faculty at-large. Term fall 2013-summer end 2016. Council assists University Facilities Management and Planning in upcoming improvement projects.
 - Served as Chair of committee 2015 - 2016
- Faculty advisor Latter Day Saint Student Association (2012-2015)
 - Academic Advisor for the 2013-14 Latter Day Saint Student Association (LDSSA) club, Participated and assisted Latter Day Saint member students in the creation of constitution and bylaws as well as week-to-week planning, association proceedings and publicizing of the group. As a part of this capacity, assisted in substitute teaching in University Institute Class.
- Faculty advisor Western Illinois Construction Management Association, Student Club - WICMA (2016-2019)
 - Academic Advisor for the 2016 Construction Management student club. Assisted in planning and organizing meeting events, speakers, service, fundraising and other activities with the student-run organization.

College Level - College of Business and Technology

- Strategic Planning Committee 2018 - 2020
- College of Business and Technology Faculty Council
 - Member in 2015-16 academic year
- College of Business and Technology Board of Directors
 - Currently serving as committee chair 2nd years (2016-2018)
- College of Business and Technology Strategic Planning Committee (2014)
 - Committee conducted self-study assessment of goals in preparation for 5 and 20 year plans for the college
- Member in “College Curriculum Meeting” proceedings March and April 2013 for

Engineering Technology School. Assisted in analysis and planning for upcoming course plans in both undergraduate and graduate programs within school.
Curriculum committee member 2015-2016.

- ET & ETL Curriculum Committee (2009-Current)
- Global Education Committee representative for Engineering Technology School at Western Illinois University 2013.

Department Level - Department of Engineering Technology

- ATMAE Outcomes Assessment Committee
 - Participated in “Outcomes Assessment” committee representing Engineering Technology and Construction Management department's 2012 -2019. Assessment was a part of the accreditation renewals with the Association of Technology, Management and Applied Engineering (ATMAE).
- Epsilon Pi Tau Induction Administrator
 - Participated two semesters for the national academics honor group. These include Fall and Spring of the 2012-2013 and Fall/Spring of 2013-2014 years.
 - Administrator at the Louisiana Proceeding induction meeting conference
- ETL Graduate Student Program Committee Member
 - Formulating course development and planning for Masters-level curriculum. Regular meetings and decision-making on curriculum.
 - Reviewing and voting on graduate applicants who were considered for admittance to the Engineering Technology program.
- Department Chair Review Committee (2013)
 - Participated in committee to assess department Chair Retention Review. This 4-year review consisted of multi-faceted data collection and analysis of Chair performance and publication of recommendations. Personally oversaw the survey creation, distribution, compilation and validation of data.
- Recruiting Open House Committee (2013-2015)
 - Co-chair of committee for recruiting potential new and transfer students to ET department enrollment. Included solicitation, planning and carrying out of bi-annual open house presentations and tour days.
- “Ralph Dirksen” Technology Exhibit Committee (2014-20120)
 - Chair of committee for administering high-school 2-day exhibit on campus where students demonstrate works in technology projects. Includes marketing to high school technology programs and overseeing event logistics.
 - High school and college transfer department group tours (2017-19).
 - Transitioned exhibit from a competition into an open house event where we were able to attract high school students to experience college life and laboratory practices in our department. Increased attendance numbers from 6 to 20 to 50 to 100 visitors over each year.
- Facilities Management Curriculum Development Committee (2013-2014)

- Assisted in creating Facilities management program development feasibility study and recommendations for school expansion into related course offerings. Presenting group consists of Dean, Chair, Full Professor and myself.

Miscellaneous Service

Habitat for Humanity Fundraiser Playhouse: Coordinated and assisted in student-built playhouse (for children) to be auctioned as a fundraiser for Habitat for Humanity in Spring 2016. Currently constructing another playhouse to be ready in Spring 2020.

Green wall living project on campus, feasibility study and proposal to various departments areas of campus to fund, install and maintain Green Living Walls where indoor vegetation can be more visible and accessible on campus grounds.

Electrical Power Systems Lab design and building. Oversaw engineered design, purchase and construction of electrical lab “trainers” used in electrical wiring and testing courses for construction/engineering 356 Lab set up at Quad City campus. Oversaw student assembly of trainers as a part of curriculum credit.

Various laboratory building projects including:

- Laboratory mobile table design and building - Student labor to design/build
- Bags Frames: Engineered and built and decorated 8 frames for bags games with student course
- Standing workstation desk design/building
- Design/Build if approximately 12 Electrical trainers for electrical wiring labs
- Other Miscellaneous Carpentry projects for lab

Facilities Tours - Heating Plant, Electrical Power Station addition construction site and various other construction sites.

Workshop Tours - Multiple trip to fabrication lab demonstration of production machinery

Student campus employment placement services: Worked with campus Facilities Management & Capital Projects departments in the assignment and placement of CSTM students to on-campus employment training while studying in the Engineering Technology program.

AWARDS

1997 Academic scholarship, Steiner Foundation for graduate work at University of Utah

1995 – 1997 Academic Scholarship, Multicultural Association at BYU

1991 Dean's List, UCCU (Currently UVU)

1988 Athletic Scholarship playing Football at Snow College, Ephraim Utah - Academic Honor Roll in Athletics

1988 Eagle Scout Award

COMMUNITY VOLUNTEER WORK

- 14 Years of head coaching youth organized teams (over 18 Seasons)
- 1 year performing in University student traveling group Lamanite Generation, Traveled and performed through several Eastern Europe Countries in 1994
- Two year Religious volunteer Mission in Northern Chile 1989 – 1991
- Served in dozens of volunteer capacities in Religious service projects.
Continuously active in service work helping community and those in need.

COMPUTER SKILLS

Proficient in AutoCad 2016, MS Excel, MS Word, MS PowerPoint, Wordperfect, Google Docs Word processor, Google Docs spreadsheet and Google Docs Presentation, WP Presentations, Prezi, QuickBooks Professional Contractor and Bluebeam. Wrote my own Excel company spreadsheets for Construction Estimating, Federal Government Certified Payroll (Davis Bacon Wages) reporting and concrete mix design Volume measurements based on Sand & Aggregate Specific Gravity. Proficient in Dronedeploy flight planning software for UAV use in the Construction Industry.

INTERESTS

Spending time with Family, Religious Volunteer Work, Reading, Most Sports, Cycling, Coaching, Serving in Youth organizations.