

BEN F. BIGELOWBIGELOW@OU.EDU 405-325-6404

830 VAN VLEET OVAL, ROOM 298, NORMAN, OKLAHOMA 73019-6141

EDUCATION:

Ph.D. Education and Human Resource Studies, December 2012
 Colorado State University, Fort Collins, CO

- Dissertation: Perceived Effects of Student Participation in Construction Management Competitions
 - Chair(s): Dr. Gene Gloeckner, & Dr. Scott Glick
 - 3 citations (Google Scholar)

M.S. Construction Management, May 2008
 Arizona State University, Tempe, AZ

- Thesis: Who's On Your Molecule (a leadership study in construction)
 - Chair: Dr. William Badger
- Arizona State University, L.C. Jacobson Graduate Fellowship recipient, 2007

B.S. Construction Science, May 2005
 Texas A&M University, College Station, TX

AWARDS, RECOGNITIONS & OTHER ACCOMPLISHMENTS:

- 2019 Kiewit Best Construction Journal Paper Award
- 2019 ACCE Reaccreditation of the Bachelor of Science Construction Science program - OU
- 2018 Kiewit Best Construction Journal Paper Award
- 2017 Veteran Support Program Recognition; Veteran Resource & Support Center
- 2017 University level, Distinguished Achievement Award for Teaching; Texas A&M University Association of Former Students
- 2017 Tiny House Featured on Department of Energy Facebook Live
- 2017 Research Award; Texas A&M Department of Construction Science
- 2017 ACCE Reaccreditation of the Master of Science Construction Science Program - TAMU
- 2017 Featured in Texas A&M Foundation Newsletter.
- 2017 Cited in Handbook of Construction Management: Scope, Schedule, and Cost Control. CRC Press Boca Raton, FL.
- 2017 Excellence in Teaching Award; Associated Schools of Construction Region V
- 2016 Outstanding Educator Award; National Association of Home Builders
- 2015 Fluor Educator of the year; Texas A&M Department of Construction Science
- 2015 Veteran Support Program Recognition; Veteran Resource & Support Center
- 2011 Best Teacher Nominee; Colorado State University
- 2009 ACCE Dupree Construction Education/National Housing Endowment Scholarship recipient
- 2004-2005 Texas A&M NAHB Student Chapter President
 - 2004 3rd Place National Chapter of the Year
- 2004 Texas A&M Residential Construction Competition Team Captain
 - 2003 Team Member
- 2004 Department of Construction Science Scholarship Recipient
- 2003 Texas A&M Residential Construction Competition Team
- 2003 Walked on to the Texas A&M Football Team

ACADEMIC EMPLOYMENT:

July 2017 to Present

Director & Associate Professor: Division of Construction Science
The University of Oklahoma, Norman, OK.

- Division Director
- Haskell and Irene Lemon Chair in Construction Science

January 2013 to June 2017

Assistant Professor: Department of Construction Science
Texas A&M University, College Station, TX.

- Graduate Program Coordinator: Department of Construction Science (8/2015 to present)
- Center for Housing and Urban Development Fellow
- 2015-2018 Holder of the Seagraves Residential Construction Fellowship

September 2012 to December 2012

Lecturer Tenure Track: Department of Construction Science
Texas A&M University, College Station, TX

September 2011 to August 2012

Visiting Assistant Lecturer: Department of Construction Science
Texas A&M University, College Station, TX

September 2008 to May 2011

Graduate Teaching Assistant, Department of Construction Management
Colorado State University, Fort Collins, CO

September 2007 to May 2008

Graduate Teaching Assistant, Del E Webb School of Construction
Arizona State University, Tempe, AZ

PROFESSIONAL EMPLOYMENT:

March 2000 to Present

Ben's Contracting, TX, AZ, CO, UT & OK

Design Build remodeling contractor

- Performing all aspects of remodeling work
 - Administrative and managerial
 - Skilled and unskilled labor
- Subject matter expert

June 2013

Balfour Beatty Construction, Dallas, TX, Faculty Fellowship

Large projects preconstruction group

- Completed QTO's
- Reviewed bid scopes
- Participated in final bid assembly
- Observed owner preconstruction meetings

PROFESSIONAL EMPLOYMENT CONT.

June 2005 to August 2007

Centex Homes, Arizona Division, Field Manager III

- Built over 120 homes “Energy Star” rated homes
- Experienced all aspects of production home building
- Managed both “Front” & “Back end” operations
- Developed Field Manager Training Course
- Trained and mentored new hires
- Given management responsibilities in less than six months
- Offered Lead Position in less than one year
- Received recognition for customer service and production performance

January 2004 to May 2004

Centex Homes, DFW Area, Internship

- Observed and participated in all aspects of production home building
 - Project Management, Start to Finish
 - Sales
 - Customer Service
 - Estimating
- Awarded 1st ever bonus to an intern
- Offered fulltime employment before completion of internship

1996-1998, 2000

Boyd Contractors, Lewisville, TX, Helper

- Skilled and unskilled labor on painting and remodeling projects

LANGUAGE:

Bilingual, I read, write and speak Spanish fluently

TEACHING AREAS:

- Blueprint Reading
- Building Science
- Construction Materials and Methods
- Construction Estimating
- Construction Spanish
- Housing
- Leadership
- Project Management
- Research Methods
- Residential Construction/Home-Building
 - Capstone
 - Economics
 - Land Development
 - Management
 - Sustainability
 - Universal Design

COURSES TAUGHT (2000+ STUDENTS IMPACTED):

At The University of Oklahoma

ARCH 5363, Methods III

Fall 2019 – 7 student in 1 section

CNS 1111, Introduction to Construction Management

Fall 2019 – 67 student in 1 section

Fall 2018 – 53 students in 1 section

CNS 1112, Cultures of Collaboration

Fall 2017 – 54 students in 1 section

CNS 1213, Computers in Construction

Spring 2019 – 53 student in 1 section (co-taught)

CNS 4970, Construction Education

Spring 2019 – 6 student in 1 section

Spring 2018 – 9 students in 1 section

CNS 5023, Research Methods

Fall 2018 – 5 students in 1 section

At Texas A&M University

COSC 253, Construction Materials and Methods

Summer 2012 - 25 students in 1 section

COSC 275, Estimating I.

Fall 2014 - 93 students in 3 sections

Summer 2014 - 26 students in 1 section

Spring 2014 - 139 students in 4 sections

Fall 2013 - 45 students in 2 sections

COSC 375, Estimating II

Summer 2015 - 21 students in 1 section

Summer 2013 – 22 students in 1 section

Spring 2013 – 37 students in 2 sections

Fall 2012 – 98 students in 3 sections

Fall 2011 – 84 students in 3 sections

COSC 441, Residential Capstone

Spring 2017 - 27 students in 1 section

Fall 2016 - 28 students in 1 section

Spring 2016 – 21 students in 1 section

Fall 2015 – 25 students in 1 section

Spring 2015 – 21 students in 1 section

Spring 2012 – 22 students in 1 section

COSC 442, Commercial Capstone

Fall 2011 - 16 students in 1 section

COURSES TAUGHT CONT.

COCS 489, Design Build Community Service
 Fall 2016 – 20 students in 1 section
 Spring 2016 – 22 students in 1 section (combined course with Architecture)
 Spring 2015 – 26 students in 1 section (combined course with Architecture)
 Spring 2014 – 23 students in 1 section

COSC 602, Construction Estimating
 Fall 2013 - 24 students in 1 section

COSC 621, Advanced Project Management
 Fall 2015 - 26 students in 1 section

COSC 681, Graduate Seminar
 Fall 2016 - 19 students in 1 section

At Colorado State University

CON 151, Construction Materials and Methods
 Fall 2010 - 47 students in 1 section

CON 265, Construction Estimating I
 Spring 2011 - 110 students in 3 sections
 Fall 2010 – 113 students in 3 sections

CON 365, Construction Estimating II
 Spring 2010 Lab Instructor – 107 students in 4 sections
 Fall 2009 Lab Instructor – 109 students in 4 sections
 Spring 2009 – 145 students in 3 sections
 Fall 2008 – 142 students in 3 sections

CON 381-A1, Residential Aging in Place and Green Building.
 Spring 2011 - 20 students 1 section.

GRADUATE STUDENTS:

No.	Name	Role	Degree	Topic	Graduation
1	Emily Kirby	Member	MSCM	Rainwater Collection	Dec. 2013
2	Minna Matthew	Co-Chair	MSCM	Women in Construction	Aug 2014
3	Lisa Ritter	Co-Chair	MSCM	Women in Construction	Aug 2014
4	Mohammadreza Ostadali	Co-Chair	MSCM	Hispanic Students	Aug 2014
5	Lauren Wortham	Co-Chair	MSCM	CM Student Skills	Dec 2014
6	Zonathan Butler	Member	MSCM	Social Media	May 2015
7	Shuan Zhao	Member	MARCH	N/A	May 2015
8	Jose Soto	Co-Chair	MSCM	Skilled Trades	Aug 2015
9	Veronica Zarate	Chair	MSCM	Skilled Trades	Aug 2015
10	Michele Thomas	Chair	MSCM	CM Research	Dec 2015
11	Matthew Lopez	Chair	MSCM	Electrical Consumption	May 2016
12	Amanda Coggins	Chair	MSCM	Building America	
13	Brent Ghomert	Member	MSCM	Submittal Process	May 2016

No.	Name	Role	Degree	Topic	Graduation
14	Derrick Pugh	Co-Chair	MSCM	Affordable Housing	
15	Lacy Masters	Member	MARCH	N/A	May 2016
16	Rajat Gupta	Co-Chair	MSCM		
17	Anusree Saseendran	Chair	MSCM	Legal Disputes	May 2017
18	Eric Opperman	Member	MARCH	Timber	May 2016
19	Nancy Gupta	Chair	MSCM	Homebuilding Delays	May 2018
20	Charmy Shah	Chair	MSCM	Electric Consumption	Dec 2018
21	Melina Cedillo	Chair	MSCM	Electric Consumption	May 2018
22	Andrew Anderson	Member	MSCM	Visualization Cognition	Dec 2017
23	Hani Alhasan	Member	MSCM	Conflict Resolution	May 2018
24	Jafer Alnasser	Member	MSCM	Risk Management	May 2018
25	Mustafa Hamad	Member	MSCM	Risk Management	May 2018
26	Mmanoko Moraba	Member	MS	Under-represented Groups	2019
27	Feryal Ighani	Member	MSCM	Retention factors	May 2019
28	Arman Yaghoobi Kachooie	Member	MSCM	Roofing Code	May 2019
29	Farzad Motaghi Pisheh	Member	PhD	Work Force Shortage	
30	Heather Rouba	Member	MSCM	Communication	May 2019
31	Jonathan Johnston	Member	MSCM	CM Program Ratings	Dec 2019
32	Emmilea Perkins	Member	MSCM	Risk Maturity	Dec 2019
33	Vivek Patel	Member	MSCM	Modular Construction	May 2020

PEER REVIEWED JOURNAL ARTICLES PUBLISHED (21) 141 CITATIONS (STUDENTS IN *ITALICS*):

Perrenoud, A., Bigelow, B. F., Perkins, E. (In Press). Advancing Women in Construction: Gender Differences in Attraction and Retention Factors with Managers in the electrical Construction Industry. *ASCE's Journal of Management in Engineering*. doi:

Saseendran, A., Bigelow, B. F., Rybkowski, Z., Jourdan, D. (2020). Disputes in Construction: An Evaluation of Contractual Effects of ConsensusDOCS. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 12(2), 04520008. doi: 10.1061/(ASCE)LA.1943-4170.0000377.

Bigelow, B. F., Perrenoud, A., *Saseendran, A., Rahman, M. (2019). An Exploration of Age on Attraction and Retention of Managerial Workforce in the Electrical Construction Industry in the United States. International Journal of Construction Education and Research. doi: 10.1080/15578771.2019.1611678*
1 Citation (Google Scholar)

Bigelow, B. F., Perrenoud, A., *Saseendran, A. (2019). Attraction and Retention of Minority Managerial Employees at Electrical Contractors. The Professional Constructor. 44(2), 41-51*

Bigelow, B., *Zarate, V., Soto, J., Arenas, J., Perrenoud, A. (2019). Attracting and Retaining Tradespeople, an Evaluation of Influencers on Construction Workers in Two Different Trades in Texas. International Journal of Construction Education and Research. doi: 10.1080/15578771.2017.1280103*
9 Citation (Google Scholar)

Kiewit Best Journal Paper Award - 2019

PEER REVIEWED JOURNAL ARTICLES PUBLISHED CONT.

Saseendran, A., Bigelow, B., Rybkowski, Z., Jourdan, D. (2018). Construction Disputes in The United States and The United Kingdom: A Comparison. *The Professional Constructor*. 43(2), 39-46

Bigelow, B. F., Elliott, J. W., Saseendran, A. (2018). Attracting Students to Construction Education Programs; An Exploration of Perceptions By Gender. *International Journal of Construction Education and Research*. 14(3) 179-197. doi: 10.1080/15578771.2017.1280101
6 Citation (Google Scholar)
Kiewit Best Journal Paper Award - 2018

Sindhu, J., Choi, K., Lavy, S., Rybkowski, Z., Bigelow, B., Li, W. (2018). Effects of Front-End Planning under Fast-Tracked Project Delivery Systems for Industrial Projects. *International Journal of Construction Education and Research*. 14(3) 163-178. doi: 10.1080/15578771.2017.1280100
5 Citation (Google Scholar)

Elliot, J. W., Thevinin, M., Bigelow, B. (2017). Promoting CM Student Success: Establishing an Academic Performance Benchmark Given Construction –Education Self Efficacy, Motivation and Planned Behavior. *International Journal of Construction Education and Research*. 13(4), 284-298, doi: 10.1080/15578771.2016.1249316
8 Citation (Google Scholar)

Elliot, J. W., Thevinin, M., Bigelow, B. (2016). Mentors, Role Models, and Observed Differences in Students' Construction Education Self-Efficacy and Motivation. *International Journal of Construction Education and Research*, 12(3), 162-178. doi:10.1080/15578771.2015.1118169
5 Citation (Google Scholar)

Bigelow, B., Bilbo, D., Baker, M. (2016). Construction Management Research: A Comparison of Perceived Value by General Contractors, Prevalence of Publication, and Funding. *International Journal of Construction Education and Research*, 12(3), 224-240. doi: 10.1080/15578771.2016.1143064
2 Citation (Google Scholar)

Bigelow, B., Bilbo, D., Ritter, L., Matthew, M., Elliot, J. W. (2016). An Evaluation of Factors for Retaining Female Students in Construction Management Programs. *International Journal of Construction Education and Research*, 12(1), 18-36. doi: 10.1080/15578771.2015.1085927
9 Citation (Google Scholar)

Escamilla, E., Ostadalimakhmalbaf, M., Bigelow, B. (2016) Factors Impacting Hispanic High School Students and How to Best Reach Them for Careers in the Construction Industry. *International Journal of Construction Education and Research*, 12(2), 82-98. doi: 10.1080/15578771.2015.1077296.
17 Citations (Google Scholar)

Bigelow, B., Robinson, J., Killingsworth, J. (2016). Contractor Feasibility in Providing Cost Segregation Studies From Detailed Estimates: A Case Study. *The Professional Constructor*. 40(1). 29-36.

PEER REVIEWED JOURNAL ARTICLES PUBLISHED CONT.

Humphrey, C., Bigelow B. (2016). Employee Loyalty Among Construction Management Field Personnel, Estimators & BIM/Design Specialists: Best Practices for General Contractors. *The Professional Constructor*. 40(1). 37-50

Bigelow, B., Escamilla, E., Kuecker, L. (2015). Construction Degree Graduates: An Evaluation of Depth of Skill Understanding and Skill Priority by Construction Industry Professionals. *The Professional Constructor*. 39(2). 37-45.

1 Citations (Google Scholar)

Bigelow, B., Bilbo, D., Matthew, M., Ritter, L., Elliot, J. W. (2015). Identifying the Most Effective Factors in Attracting Female Undergraduate Students to Construction Management. *International Journal of Construction Education and Research*, 11(3), 179-195. doi: 10.1080/15578771.2014.1002639.

19 Citations (Google Scholar)

Bilbo, D., Bigelow, B., Escamilla, E. Lockwood, C. (2015). Comparison of Construction Manager at Risk and Integrated Project Delivery Performance on Healthcare Projects: A Comparative Case Study. *International Journal of Construction Education and Research*. 11(1), 40-53. Doi: 10.1080/15578771.2013.872734

37 Citations (Google Scholar)

Bilbo, D., Bigelow, B., Rybkowski, Z., Anzadeh, A. (2014). Effects of Family Related Factors on Female Project Managers' Salaries in the Construction Industry in the United States. *International Journal of Construction Education and Research*, 10(4), 255-267. doi: 10.1080/15578771.2014.886641

13 Citations (Google scholar)

Bilbo, D., Escamilla, E., Bigelow B., Garcia, J. (2014). Effects of HB 56 on the Construction Economy in Alabama. *The Professional Constructor*, 38(2), 34-46.

Bigelow, B., Glick, S., Aragon, A. (2013). Participation in Construction Management Student Competitions: Perceived Positive and Negative Effects. *International Journal of Construction Education and Research*. 9(4), 272-287.

doi:10.1080/15578771.2013.809037

8 Citation (Google Scholar)

PEER REVIEWED CONFERENCE PROCEEDINGS (11) (STUDENTS IN *ITALICS*):

Bigelow, B. F., Perrenoud, A. (2020). Leveraging Construction Higher Education to Expose a Broader Audience to the Construction Industry in the United States. Associated Schools of Construction 55th Annual International Conference, Liverpool, UK.

Bigelow, B. F., Cedillo, M. (2020). An Evaluation of Electrical Energy Usage Comparing Homes Built with and Without Building Code Enforcement. Residential Building Design and Construction Conference, State College, PA.

Saseendran, A., Bigelow, B. F., Rybkowski, Z., Jourdan, D. (2020). Disputes in Construction: An Evaluation of Contractual Effects of ConsensusDOCS. American Society of Civil Engineers Construction Institute Summit - Legal Affairs and Dispute Resolution Session, Los Angeles, CA.

PEER REVIEWED CONFERENCE PROCEEDINGS CONT.

Johnson, J., Ghosh, S., Bigelow, B. (2019) Use of Immersive Navigation in Virtual Space to Improve Student Learning. Associated Schools of Construction 54th Annual International Conference, Denver, CO.

Cedillo, M., Bigelow B. (2018) An Evaluation of the Effect of Age on House Construction on Electrical Energy Consumption in Montgomery County, Texas. 2018 ASHRAE Annual Conference, Houston, TX.

Perrenoud, A., Alnasser, J., Bigelow, B. (2018) A Review of the Barriers to Implementing Project Risk Management and a Study of their Impact on Electrical Contractors' Risk Maturity Levels. 2018 Construction Research Congress, New Orleans, LA.

Gleason, J., Kelting, S., Bigelow, B. (2017) GPA and Construction Competition Participation as Indicators for Future Career Success of California Construction Management Students. Associated Schools of Construction 52st Annual International Conference, Seattle, WA.

Bigelow, B., Robinson, J. (2016) General Contractors and Cost Segregation Studies. 2016 Construction Research Congress, San Juan, PR.

Holt, E., Chasek, C., Bigelow, B., Shaurette, M. (2016). The Demographics of the U.S. Construction Management Undergraduate Students for 2015. Associated Schools of Construction 51st Annual International Conference, Provo, UT.

Bigelow, B., Lopez, M. (2016) Effects of Building Codes on Actual Electricity Consumption in Central Texas Homes. 3rd Annual Residential Building and Design Conference, State College, PA.

*Holt, E., Bigelow, B., Benham, J. M. (2015) Emerging Technology in the Construction Industry: Perceptions from Construction Industry Professionals. American Society for Engineering Education 122nd Annual Conference and Exposition, Seattle, WA.
7 citations (Google Scholar)*

OTHER PUBLICATIONS (9):

Perrenoud, A., Bigelow, B., Reyes, M. Electrical Management Training: Productivity Awareness. Technical Report Prepared for ELECTRI International (2019).

Bigelow, B., Perrenoud, A., Careers in Construction Lesson Plans. Technical documents produced for TEXO (2019).

Perrenoud, A. Bigelow, B., Holt, E. Career Pathways Study: Early Career Homebuilders – Understanding and Engaging the Young Homebuilder. Technical Report prepared for the National Association of Homebuilders. (2018).

Bigelow, B. The Untapped Resource: Is Diversity A Solution To Workforce Shortages. Electrical Contractor Magazine. February (2019).

Bigelow, B. Careers in Home Building Lesson Plans 2.0. Technical documents produced for the National Association of Homebuilders (2018).

OTHER PUBLICATIONS CONT.

Bigelow, B. *Attracting and Retaining Managerial Workforce in the Electrical Construction Industry*. Technical Report Prepared for ELECTRI International (2018).

Bigelow, B. *Careers in Home Building Lesson Plans*. Technical documents produced for the National Association of Homebuilders (2016).

Bigelow, B. *The Electrical Construction Workforce in Texas*. Technical Report Prepared for ELECTRI international (2016).

Bigelow, B. *Three Steps to Utilize Technology in Construction*. Engineering News Record Bi-Weekly Technology Newsletter (2015).

FUNDED PROJECTS (\$617,561 - \$445,111 EXTERNAL, \$172,450 INTERNAL):

Perrenoud, A., Reyes, M., Bigelow, B. (2019). *Electrical Management Training (EMT) Phase 2*. ELECTRI International. (\$90,200).

- Co-PI Secondary responsibility for overall project
- External National Level, invited submission

Perrenoud, A., Reyes, M., Bigelow, B. (2019). *Electrical Management Training (EMT)*. ELECTRI International. (\$44,954).

- Co-PI Shared responsibility for overall project
- External National Level, open submission

Gosh, S., Bigelow, B., Bhattacharjee, S., Bloom, B. (2019). *University of Oklahoma Home Building Education and Leadership Program*. National Housing Endowment. (\$95,600).

- Co-PI Shared responsibility for project overall
- External National Level, open submission

Bigelow B., Perrenoud A (2019) *Construction Lesson Plans*. TEXO Foundation (\$12,333).

- Co-PI Overall responsibility for project
- External, Regional level, invited proposal

Bigelow, B. (2018). *Advanced RCS Instruction*. Home Builder's Institute. (\$1,505).

- External National Level, invited

Bigelow, B. (2018). *Electrical Energy Consumption by Year of Construction*. National Association of Home Builders. (\$500).

- External National Level, open submission

Perrenoud, A., Bigelow, B., Holt, E. (2018). *Home Building Industry Career Pathway: The Current State and Recommendations for the NAHB Value-Add to Early Career Individuals in Home Building*. National Association of Home Builders. (\$28,900).

- Team member
- External National Level, Invited submission

FUNDED PROJECTS CONT.

Bigelow B., Perrenoud A (2018) Homebuilding Lesson Plans. National Association of Home Builders. (\$2,000).

- Co-PI Overall responsibility for project
- External, National level, invited proposal

Bigelow B. (2017) Residential Construction Superintendent Training. Colorado Homebuilding Academy. (\$3,467.13)

- PI, responsible for all parts of the project
- External, National Level, invited proposal

Bardenhagen E., Bigelow B., O'Brien M., Van Zandt S., Ali A. (2017) *Modular Mobile Health Clinics for Vulnerable Border Communities*. Texas A&M College of Architecture. (\$24,600)

- Co-PI, High level organization, responsible for assembling team and finalizing concept
- Internal, Open to all College of Architecture faculty

Bigelow B. (2017) Best Practices for Increasing Diversity in the Electrical Construction Industry. ELECTRI International. (\$31,020).

- Sole Investigator, responsible for project in its entirety
- External, National level, invited proposal

Bigelow B. (2016) Homebuilding Lesson Plans. National Association of Home Builders. (\$1,000).

- PI, overall responsibility and construction expertise
- External, National level, invited proposal

Bigelow B. (2016) Residential Construction Superintendent Facelift. Home Builder's Institute. (\$7,425).

- Sole Investigator, responsible for project in its entirety
- External, National level, invited proposal

Bigelow B. (2016) Tiny House 2.0 Texas A&M College of Architecture. (\$31,100)

- Internal award

Bigelow B. (2016) Tiny House 2.0. Design Build Institute of America (DBIA). (\$5,000)

- External, Private award

Bigelow B. (2016) Tiny House 2.0. Building Owners and Managers Association (BOMA). (\$5,000).

- External, Private award

Bigelow B. (2016) Graduate Degree Planning and Programming. TEXO The Construction Organization. (\$3,000).

- External, Regional level, open competition

Bigelow B. (2015) *Exploring Where the Electrical Construction Workforce Comes From and Their Career Awareness*. Electri International Early Career Award. (\$9,000).

- Sole Investigator, responsible for project in its entirety
- External, International level, open competition

FUNDED PROJECTS CONT.

Bigelow B. (2015). *Increasing and Improving Homebuilding Education at Texas A&M University*, National Housing Endowment. (\$99,943) 2015-2020.

- Sole Investigator, responsible for project in its entirety
- External, National level, open competition award

Ali A. K., Bigelow B., O'Brien M., Van Zandt S. (2015). Bryan Urban Farmers Market, Texas A&M College of Architecture. (\$23,000).

- Co-PI, responsible for ~30% of project.
- Internal, local level, open to all College of Architecture faculty

Bigelow B., Van Zandt S. (2014). Design Build Community Service Display, Academy for Visual and Performing Arts. (\$4,250).

- Co-PI, responsible for ~50% of project.
- Internal, University level, open to Colleges of: Architecture, Education, and Liberal Arts
- Reported on by 7 different media outlets
- Required reading for the 2016 Berkeley Prize Undergraduate Prize for Architectural Design Excellence.

Bigelow B., Van Zandt S., Campagnol G., O'Brien M. (2014). *Design Build Community Service II*, Texas A&M College of Architecture. (\$25,000).

- Co-PI, lead, responsible for broad project goals, and construction science details.
- Internal, local level, open to all College of Architecture faculty

Bigelow B. (2013). *Research Topic Bank*. Texas A&M Department of Construction Science, Construction Industry Advisory Council. (\$19,500).

- Sole investigator, responsible for project in its entirety
- Internal, Department level, tenure track faculty competition

Bigelow B., O'Brien M., Campagnol G., Van Zandt S. (2013). *Design Build Community Service*, Texas A&M College of Architecture. (\$20,000).

- Co-PI, lead, responsibility for achievement of larger project goals, and details pertaining to construction science.
- Internal, college level

Clayton M., Booth G., Kang J., Bigelow B., Solis J., Rybkowski Z., Bienko J., Ming H. L., Dvorak B. (2012). *Real Projects*. Texas A&M College of Architecture. (\$25,000).

- Co-PI, responsibility for student build portion of the project.
- Internal, local level, open to all College of Architecture faculty.

Bigelow B. F. & Gloeckner G. W. (2009). *Effects of Student Participation in Construction Management Competitions*. National Housing Endowment. (\$4,264).

- Co-PI, project lead responsible for project in its entirety
- External, unsolicited proposal

FUNDING NOT AWARDED:

Ghosh, S. Bigelow, B. (2019). Modular and Panelized Construction: A Study on Costs and Housing Affordability Impacts. The National Housing Endowment. (\$65,055).

- External National Level, open competition

Perrenoud, A., Bigelow, B., Ghosh, S. (2018). The Roofing Workforce Demographics: Addressing Workforce Shortages Through Better Understanding of Worker Age, Gender, & Ethnicity. The Roofing Alliance for Progress. (\$68,715).

- External National Level, open competition

Perrenoud, A., Bigelow B (2018). A Longitudinal Study on Recruiting and Onboarding Electrical Skilled Workers. ELECTRI International. (\$ undefined).

- External International Level, Invited submission

Perrenoud, A., Bigelow B (2018). Tools for Recruiting, Selecting, and Onboarding Electrical Workers. ELECTRI International. (\$26,965).

- External International Level, Invited submission

Perrenoud, A., Bigelow B (2017). Best Practices for Attracting Talent to The Electrical Skilled Trades. ELECTRI International. (\$48,622).

- External International Level, open competition

Bigelow B., Thomas A. (2016). Homes of Our Own 2.0. National Association of Home Builders. (\$681,000).

- External, National Level, invited proposal

Ali A., Bigelow B. (2016). Rio De Los Brazos de Dios Welcome Center. National Endowment for the Arts, Our Town. (146,800).

- External, National level, open competition

Bigelow B. (2016). *Bringing the Warrior Scholar Project to Texas A&M*, Chive Charities. (\$31,500).

- External, National level, open competition

Bigelow B. (2015). *Increasing Women and Other Underrepresented Groups in Construction*. Construction Industry Institute. (Undefined Amount).

- External, International level, open competition.

Bigelow B. (2014). *Quantifying the Impact on Project Costs of Late or Delayed Payment*. Electri international. (\$66,600).

- External, International level, open competition

Bigelow B. (2014). *Awareness of, Loyalty to, and Advancement in Electrical Construction Careers*. Electri international. (\$52,000).

- External, International level, open competition

Bigelow B. (2014). *Assessing the Costs to Builders and Developers of Increasing The Soil Base in Georgetown, TX*. City of Georgetown. (\$15,000).

- External, solicited project

FUNDING NOT AWARDED CONT.

Bigelow B. (2014). *Diversity in Construction Management*. Construction Industry Advisory Council. (\$20,000).

- Internal, Department level, tenure track faculty competition

Bigelow B., Ali A., O'Brien M., Van Zandt S., (2014). *Design Build Community Service*, Texas A&M College of Architecture. (\$25,000).

- Internal, local level, open to all College of Architecture faculty

Bigelow B. (2014). *Design Build Community Service*. Austin Community Foundation (\$25,000).

- External, regional (Austin, TX area), open competition

Bigelow B. (2014). *Design Build Community Service*. Design Ignites Change (\$5,000).

- External, National level, open competition

Bigelow B. (2014) *Design Build Community Service*. Faculty Fellow Program for Innovation in High Impact Learning Experiences. (\$3,000).

- Internal, University level, open competition

Asadi S., Bigelow B. (2013). *Increasing the Quantity and Quality of Women and Minority Students in Residential Construction Management*. National Housing Endowment. (\$100,000).

- External, National level, open competition.

Ryoo, B., Bigelow, B. (2013) *Kyle Field Documentation*. Texas A&M University. (\$93,000).

- Unsolicited proposal.

Bigelow B., Campagnol, G. (2013). *Design Build Community Service*. Architecture + Construction Alliance. (\$10,000).

- External, National level, limited competition

Bigelow B., (2013). *Faculty Fellowship*. Associated General Contractors. (\$4,500).

- External, National level, open competition

Bigelow B. (2013). *Design Build Community Service*. Co-Curricular Art Grant. (\$10,000).

- Internal, University level, open competition

Bigelow B., Escamilla E. (2012). *Hispanic Participation in Homebuilding*. National Housing Endowment. (\$100,000).

- External, National level, open competition.

Bigelow B. (2012). *Pre-Construction Ethics*. Associated General Contractors. (\$12,000).

- External, national level, open competition

Bigelow B. (2012). *Cost Segregation Studies: An Opportunity for Added Value in General Contractor's Bidding*. Construction Industry Advisory Council. (\$25,000).

- Internal, Department level, tenure track faculty competition

Bigelow B., (2012). *Real Projects*. Bringing Theory to Practice. (\$10,000).

- External, National level, open competition

FUNDING NOT AWARDED CONT.

Bigelow B., Escamilla E., Segner, R. (2012). *High Impact Construction Materials and Methods Instruction through Video Based Learning Modules*. Program to Enhance Scholarly and Creative Activities. (\$25,000).

- Internal, University level, open competition

Bigelow B., Escamilla E. (2012). *High Impact Construction Materials and Methods Instruction through Video Learning Modules*. Arts Research Enhancement Grant. (\$7,500).

- Internal, University level, open competition

COMMUNITY SERVICE:

- 2018. Coach, Norman Youth Soccer Association
- 2018. Assistant Scout Master, Boy Scouts of America
- 2017. Den Leader, Boy Scouts of America (Cub Scouts)
- 2016 – 2017. Troop Committee Chairman, Boy Scouts of America
- 2017 – Project Leader, Colonias Mobile Medical Clinics
- 2017 – Farmers Assisting Returning Military (F.A.R.M.) tiny house
- 2016 – 2017. Troop Committee Chair, Boy Scouts of America.
- 2014 & 2016. Community First! tiny house
- 2011 – 2016. Scoutmaster, Boy Scouts of America.
- 2012 – 2016. Coach, College Station Youth Soccer Club
- 2004, 2005, 2007, & 2014. Playhouse builder, Court Appointed Special Advocates (CASA)
- March 2014. Oversaw wheelchair ramp construction for elderly couple

NATIONAL & INTERNATIONAL SERVICE:

- 2020. Session Moderator, Residential Building Design & Construction Conference.
- 2017-Present. National Association of Home Builders, Student Chapters, Housing Research Subcommittee member.
- 2012-Present. National Association of Home Builders, Student Chapters, 4-year competition subcommittee member.
- 2016, 2018, & 2020. Residential Building Design and Construction Conference, International Scientific Committee member
- 2017, 2018. Associated Schools of Construction International Conference, Poster Abstract Reviewer
- 2015-Present. International Journal of Construction Education and Research, Associate Editor
- 2012-Present. National Association of Home Builders, Student Chapters Advisory Board Member
- 2015-2017. National Association of Home Builders. Students chapters, 4-year Competition subcommittee Chair
- 2016. National Association of Home Builders. Young Professionals Committee Member
- 2012-2016. National Institute of Building Science, Building Enclosure Technology and Environment Council Education Committee member
- 2012-2016. TAMU College of Architecture Representative to the National Consortium of Housing Research Centers
- 2014 National Association of Home Builders National Quality Council Meeting, Host
- 2014-2015. National Association of Home Builders Gen X Gen Y working group
- 2013- 2015. International Journal of Construction Education and Research, Editorial Board Member

NATIONAL & INTERNATIONAL SERVICE CONT.

- 2013. National Association of Home Builders Education Committee

UNIVERSITY SERVICE:**THE UNIVERSITY OF Oklahoma**

- 2020. Development Officer search committee member, College of Architecture
- 2018. Staff search committee member, College of Architecture
- 2018. PDC 6023 Group Leader, College of Architecture
- 2017. Project leader, Hurricane Harvey Clean-Up trip

TEXAS A&M UNIVERSITY

- 2011-2017. Advisor, Texas A&M National Association of Home Builders student chapter
- 2012-2017. Coach, Texas A&M NAHB competition team
- 2012-2017. \$25,000+ in fundraising to support NAHB student chapter & competition team
- 2012-2017. Faculty Escort, Department of Construction Science Field Trip Day
- 2015-2017. Graduate Program Coordinator, Department of Construction Science
- 2015-2016. Group Leader, Department of Construction Science Capstone
- 2016. Committee member, Construction Science Department head search
- 2016. Committee member, Construction Science Department faculty search
- 2016. Created endowed fund to support student travel to NAHB competition (\$60,000 corpus)
- 2015. Committee Member, College of Architecture PhD Ad-Hoc
- 2014- 2015. Committee member, Department of Construction Science Undergraduate Curriculum
- 2014. Search committee member, College of Architecture Business Office
- 2014. Award committee chair, College of Architecture Star Performer Award
- 2012-2016. Texas A&M representative, National Consortium of Housing Research Centers
- 2012, 2013, 2015, 2016. Faculty Representative, Construction Industry Advisory Council bi-annual meetings

SERVICE, INVITED PRESENTATIONS (24):

- An Evaluation of Electrical Energy Usage Comparing Homes Built with and Without Building Code Enforcement. Residential Building Design and Construction Conference, State College, PA.
 - Peer-reviewed
- Internships. Oklahoma Building Summit 2019 Oklahoma City, OK
 - Invited, non-peer reviewed
- Attracting and Retaining Managerial Workforce in the Electrical Construction Industry. NECA NOW 2019 Phoenix, AZ
 - Internally Vetted, non-peer reviewed
- Teaching with Immersive Virtual Environments. Residential Educators Workshop. 2019 International Builders Show, Las Vegas, NV.
 - Internally Vetted, non-peer reviewed
- Winning the Time Game. 2019 International Builders Show, Las Vegas, NV.
 - Internally Vetted, non-peer reviewed
- Coaching: Creating Standards of Excellence. 2019 International Builders Show, Las Vegas, NV.
 - Internally Vetted, non-peer reviewed

SERVICE, INVITED PRESENTATIONS CONT.

- Labor Shortage Solutions: Developing The Next Generation of Builders & Skilled Trades. 2019 International Builders Show, Las Vegas, NV.
 - Internally Vetter, non-peer reviewed
- Attracting and Retaining Managerial Workforce in the Electrical Construction Industry. NECA 2018 Philadelphia, PA.
 - Technical report, non-peer reviewed.
- Electrical Energy Consumption by Year of Construction. 2018 National Association of Home Builders, Student Chapters Research Sub-Committee, Mid-Year Meeting Portland, OR.
 - Internally Vetted, non-peer reviewed
- Attracting and Retaining Managerial Workforce in the Electrical Construction Industry. 2018 College of Architecture Brown Bag Series.
 - Technical report, non-peer reviewed.
- Attracting and Retaining Managerial Workforce in the Electrical Construction Industry. 2018 ELECTRI Council Meeting, West Palm Beach, FL.
 - Technical report, non-peer reviewed.
- Codes and Quality Control. 2017 International Builders Show, Orlando, FL.
 - Internally vetted, non-peer reviewed.
- Planning and Scheduling. 2017 International Builders Show, Orlando, FL.
 - Internally vetted, non-peer reviewed.
- The Electrical Construction Workforce in Texas (10/2016). Texas A&M University College of Architecture Research Symposium.
- The Electrical Construction Workforce in Texas (7/2016). ELECTRI International Summer Council Meeting, Napa, CA.
- Using the NAHB competition as a model for capstone course content (1/2016). International Builder's Show, Las Vegas, NV.
- Identifying the Most Effective Factors in Attracting Female Undergraduate Students to Construction Management (10/2015). Texas A&M University College of Architecture Research Symposium.
- Eliminating Field Errors & Increasing Profits with New Technologies. (2015) Engineering News Record (ENR)/On Center Webinar.
 - Internally vetted, non-peer reviewed
- Technology & Homebuilding (2014) NAHB Builder 20 "Craftsmen". College Station, TX.
 - Non-Peer Reviewed
- Customer Service & Homeowner Relations. 2014 International Builders Show, Las Vegas, NV.
 - Internally vetted, non-peer reviewed.
- Codes and Quality Control. 2014 International Builders Show, Las Vegas, NV.
 - Internally vetted, non-peer reviewed.
- Winning the Time Game. 2014 International Builders Show, Las Vegas, NV.
 - Internally vetted, non-peer reviewed.
- Running a Successful Job: Jobsite Best Practices. 2014 International Builders Show, Las Vegas, NV.
 - Internally vetted, non-peer reviewed.
- Savvy Superintendents: The Qualities Necessary to Excel at Jobsite Management. 2013 International Builders Show, Las Vegas, NV.
 - Competitively selected & internally vetted, non-peer reviewed.
- Superintendents Can Make or Break the Bank: Tools & Techniques to Drive Efficiencies. 2013 International Builders Show, Las Vegas, NV.
 - Competitively selected & internally vetted, non-peer reviewed.

I, Ben F. Bigelow hereby acknowledge that the curriculum vitae being submitted is the most current, and is correct as of the date listed below.

Signature

Date