

Dhaval Gajjar, PhD, FMP, SFP

Assistant Professor

Department of Construction Science and Management, Clemson University

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EDUCATION

Ph.D., Construction Management, May 2016

Arizona State University – Tempe, AZ

M.S., Construction Management, May 2013

Arizona State University – Tempe AZ

B.S., Biochemistry, December 2011

Arizona State University – Tempe, AZ

PROFESSIONAL CERTIFICATION

- 2014 - FMP (Facilities Management Professional)
- 2015 - SFP (Sustainable Facility Professional)

TEACHING EXPERIENCE:

August 2018 to Present: Assistant Professor, Department of Construction Science and Management, Clemson University

- Course of Instruction
 - Undergraduate: Materials and Methods of Construction I, Materials and Methods of Construction II

August 2015 to May 2016: Instructor, Del E. Webb School of Construction, Arizona State University

- Course of Instruction
 - Undergraduate: Applied Statics

January 2014 to December 2015: Teaching Assistant, Del E. Webb School of Construction, Arizona State University

- Course of Instruction
 - Graduate: Facilities Real Estate Management, Finance and Communication in Facilities Management, Alternative Project Delivery Methods, Facilities Management & Administration

PUBLICATIONS

Journal Publications - Published:

1. Kashiwagi, D., Gajjar, D., Zulanas, C. (2017). The Cost Effectiveness of Alpha SPF Roofs: Casa View Elementary School Roofing Case Study. *Journal for the Advancement of Performance Information and Value*, 8(2), 42-57.

2. Gajjar, D., Kashiwagi, D., Sullivan, K., Kashiwagi, J. (2017). Using Satisfaction Ratings to Minimize Risk. *Journal for the Advancement of Performance Information and Value*, 8(2), 92-101.
3. Kashiwagi, D., Gajjar, D., Kashiwagi, J., & Sullivan, K. (2016). Hail Study on a 15 Year Old Sprayed Polyurethane Foam Roofing System. . *Journal for the Advancement of Performance Information & Value*, 7 (1), 5-1 – 5-11
4. Gajjar, D., Kashiwagi, D., Kashiwagi, J., & Sullivan, K. (2015). High Performing Contractor's Use of Performance: Past Customer Satisfaction and Visual Inspections. *International Journal of Facility Management*, 6(2)
5. Gajjar, D., Kashiwagi, J., Kashiwagi, D., & Sullivan, K. (2014). Maintaining the Quality of Constructed Facilities Using the Performance Information Measurement System: A Three-Year Study on SPF Roofing, *International Journal of Facility Management*, 5(2).
6. Gajjar, D., & Kashiwagi, D. T., & Kashiwagi, J., & Sullivan, K. (2014). Best Value Case Study for Cold Storage Facility in Miami, Florida. *Journal for the Advancement of Performance Information & Value*, 6(1), 53-71.
7. Gajjar, D., Kashiwagi, D., Sullivan, K., and Kashiwagi, J. (2013). "Post Occupancy Performance Evaluation of "Time of Installation" Factors — A Seven Year Study of SPF Roofing." *ASCE Journal of Performance of Constructed Facilities*, 10.1061/(ASCE)
8. Gajjar, D., Sullivan, K. T., Kashiwagi, D. (2013). "Post Construction Quality Evaluation- Manufacturer's Use of End User to Minimize Risk." *Journal for the Advancement of Performance Information and Value*, 5 (1), 20-26.

Journal Papers – Accepted:

1. Gajjar, D., Smithwick, J., and Sullivan, K. (2018). "Improving Janitorial Contract Performance with Facility Management Performance Scorecards." *Journal of Facility Management Education and Research*.

Journal Papers – In-progress:

1. Gajjar, D. and Sullivan, K. (2019). "Use of Performance Based Risk Minimization Model to Track Real-Time Performance of Roofing Projects". Intended for *Journal of Construction Engineering and Management*.

Conference Publications - Published:

1. Kashiwagi, D., Gajjar, D., Zulas IV, C., and Alhammadi, Y. (2017). "The Cost Effectiveness of Alpha SPF Roofs: Casa View Elementary School Roofing Case Study." *53rd Annual International Conference of the Associated Schools of Construction (ASC)*, University of Washington and Washington State University, Seattle, WA, April 5 – 8, 2017, pp. 197 – 205.

2. Kashiwagi, D., Gajjar, D., and Carvalho, L. (2016). "Minimizing Risk through Performance Rather than Warranties." *Proceedings of the CIB World Congress 2016, Volume V*, Tampere University of Technology, Tampere, Finland (May 30 – June 3, 2016), pp. 496–507.
3. Gajjar, D., Sullivan, K., Kashiwagi, D., and Lines, B. (2016). Use of Warranty Tracking Program to Identify and Resolve Performance Risks. *ASCE Construction Research Congress*, San Juan, Puerto Rico, 31 May-2 June 2016. pp. 2171-2176.
4. Corea, R., Kashiwagi, D., Gajjar, D., and Romero, S. (2016). "Use of Best Value Model to Achieve Sustainability: A Case Study on a Semiconductor Manufacturer." *International Conference on Sustainable Design, Engineering and Construction (ICSDEC)*, Arizona State University, Tempe, AZ, Procedia Engineering, Volume 145, May 18-20, 2016, pp. 746-751.
5. Gajjar, D., Sullivan, S., Kashiwagi, J. Mischung, J. (2015) "Use of First Semester Education to Identify and Tackle the Transitional Challenges faced by Indian Graduate Students in the Construction Department." *ASEE Conference 2015*, Seattle, WA, USA (June 14 – 17, 2015).
6. Gajjar, D., Kashiwagi, D., Sullivan, K., Smithwick, J. (2015) "Case Study in the Application of the Project Definition Rating Index and Best Value Procurement System to a Sprayed Polyurethane Foam Roofing Project." *2015 Project Management Symposium*, College Park, MD, USA (June 7-8, 2015).
7. Gajjar, D., Kashiwagi, D., Sullivan, K., Kashiwagi, J. (2015) "Performance Measurement System for Maintenance of SPF Roofing System: A 4 Year Case Study." *51st ASC Annual International Conference Proceedings*, College Station, TX, USA (June 23 – 24, 2015).
8. Gajjar, D., Kashiwagi, D., and Kashiwagi, J. (2013) "Use of Performance Information Risk Minimization Program to Identify Problem Projects." *RICS COBRA Conference 2013*, New Delhi, India, pp. 897-904 (September 10-12, 2013).
9. Kashiwagi, D., Gajjar, D., Smithwick, J., Kashiwagi, J. (2013) "Implementation of a Real-Time Information System for a Roofing Manufacturer." *ISEC-7*, Honolulu, HI, USA pp. (June 18-23, 2013).
10. Gajjar, D., Sullivan, K., and Kashiwagi, D. (2012) "Manufacturer's Use of End User to Minimize Risk." *RICS COBRA Conference 2012*, Las Vegas, NV, USA pp. 1869-1875 (September 11-13, 2012).
11. Gajjar, D., Kashiwagi, D., and Kashiwagi, J. (2012) "Manufacturer's New Approach To Risk." *RICS COBRA Conference 2012*, Las Vegas, NV, USA pp. 1859-1868 (September 11-13, 2012).
12. Greenfield, L., Gajjar, D., Kashiwagi, D., and Sullivan, K. (2012) "An Educational Approach For Using Performance Criteria in the Roofing Industry." *RICS COBRA Conference 2012*, Las Vegas, NV, USA pp. 552-559 (September 11-13, 2012).

1. Gajjar, D., and Sullivan, K. (2018) "Impact of Manufacturer and Job Complexity on the Roofing Quality for Sprayed Polyurethane Roofs". *Associated Schools of Facility Management*, Charlotte, NC.

Conference Papers – In-progress:

1. Gajjar, D., and Sullivan, K. (2018) "A Study of Construction Industry Workforce". Intended for *Associated Schools of Construction Conference*.

Conference Presentations:

1. "Impact of Manufacturer and Job Complexity on the Roofing Quality for Sprayed Polyurethane Roofs". *Associated Schools of Facility Management*, Charlotte, NC, USA, October 2, 2018.
2. "Performance Measurement System for Maintenance of SPF Roofing System: A 4 Year Case Study." *51st ASC Annual International Conference Proceedings*, College Station, TX, USA, June 23 – 24, 2015.
3. "Value-based Approach to IT Networked Services Delivery: A Case Study." *2015 Project Management Symposium*, College Park, MD, USA, June 7-8, 2015.
4. "Project Preplanning Best Practices for Educational Facilities: A Case Study." *2015 Project Management Symposium*, College Park, MD, USA, June 7-8, 2015.
5. "Maintaining the Quality of Constructed Facilities Using the Performance Information Measurement System: A Three-Year Study on SPF Roofing" *IFMA World Workplace 2014*, New Orleans, LA, September 18, 2014
6. "Manufacturer's Use of End User to Minimize Risk" *RICS COBRA Conference 2012*, Las Vegas, NV, September 11-13, 2012.
7. "Manufacturer's New Approach to Risk" *RICS COBRA Conference 2012*, Las Vegas, NV, September 11-13, 2012.

Book Chapters:

1. Jedlitzke, M., Gajjar, D., Hohmann, J., Marchionini, M., May, M., Opic, M., & Williams, G. *Mobile Technologies and IT Interfaces*. (pp. 79 – 95). International Collaboration, The Facility Manager's Guide to Information Technology.

INDUSTRY EXPERIENCE

November 2017 – May 2018: Project Manager, TEPCON Construction

August 2015 to February 2016: Assistant Project Manager, TEPCON Construction

- Scheduling, planning, and organizing the work with sub-contractors for remodel projects of over \$7.5 M
- Write and review the contracts for sub-contractors in accordance with the bid proposal and requirements
- Compiling a bid package with estimates and qualifying the sub-contractors

- Read and interpret the drawings to communicate with the sub-contractors for adherence to project scope and deadlines
- Review and track status of submittals and RFI's
- Coordinate with sub-contractors in regards to permits, work-orders and notice to proceed

February 2016 to November 2017: Construction Manager, Harkins Theatres

- Provide oversight and leadership for construction projects for 34 theatres (2.7+ M SF) from conception to completion
- Coordinate and collaborate with the architects, engineers, contractors, landlords, and internal departments throughout the project life-cycle to ensure accurate drawings, design and code compliance and maintain the construction quality
- Managed and completed projects (total of over \$10M) toward on-time completion within budget
- Preparation of estimates, budgets, feasibility studies, review drawings and pre-construction activities for potential projects
- Generate contracts, RFP, owner expectations and/or scopes of work for assigned projects for quality compliance
- Oversee onsite and offsite construction to monitor compliance with building safety regulations
- Qualify A&E, General Contractor and Material Vendor bids and change orders to minimize costs while maintaining schedule and design intent

June 2014 to May 2016: Roof Inspector, KSM Inc.

- Conducted 500+ physical inspections (24.6 million square feet) of various building envelope, waterproofing, and roofing systems throughout the United States
- Documented site conditions (blistering, delamination, etc.), investigated the source of leaks, and collected customer satisfaction information

August 2007 to December 2011: Data Manager, Arizona State University

- Manage the best value procurement bid process from the procurement phase to the substantial completion of the project on over 300 construction projects
- Produce RFP, RFQ and the scope of work for selection of the best value contractor
- Tracking, analyzing and assisting the clients and contractors for all the major deviations caused during the construction phase in regards to time, cost and quality
- Managing and organizing contractor performance information and selection matrix increasing the efficiency of the research group
- Assist in RFP creation, contractor bid analysis, best value contractor selection based on the owner's project requirements and weekly reporting system for clients and contractors

INDUSTRY PRESENTATIONS

1. "Navigating Gender Difference in the Workplace". IFMA World Workplace, Charlotte, NC, October 5, 2018.
2. "Impact of Manufacturer and Job Complexity on the Roofing Quality for Sprayed Polyurethane Roofs". IFMA World Workplace, Charlotte, NC, October 5, 2018.
3. "Millennials in the FM Workplace: The Benefits, Challenges and HR Pitfalls". IFMA World Workplace, Charlotte, NC, October 4, 2018
4. "The Internet of Things (IoT)". IFMA Phoenix Chapter, Phoenix, AZ, May 10, 2017.

5. "Pre-planning: Not as Difficult as you Think". Project Controls Summit, Alhambra, CA, February 3, 2016.
6. "Facility Management of the Future". IFMA Vancouver Chapter, Vancouver, Canada, January 27, 2016.
7. "Best Value Procurement System". Northwest and Canada Region Meeting, Marriott Hotel, Vancouver, Canada, January 26, 2016.
8. "Use of Performance Information to Identify and Rectify Risky Projects". Tremco Southwest Region Meeting, Arizona State University, Tempe, AZ, February 4, 2015.
9. "Use of Best Value & Performance Information". Executive Leadership Meeting, Arizona State University, Tempe, AZ, December 9, 2014.
10. "Risky Projects Tracking with the Use of Real-Time Information System". Neogard Annual Regional Manager Meeting, Wyndham Hotel, Dallas, TX, September 11, 2014.
11. "Performance Information Tracking for Warranted projects". Tremco Northwest Region Meeting, Wingate Hotel, Seattle, WA, September 10, 2014.
12. "Avoiding Silo Thinking through Accountability & Transparency". Project Management Institute (PMI) Meeting, Willows, Tempe, AZ, March 21, 2014.
13. "Case Study of a Best Value Manufacturer". Project Management Institute (PMI) Meeting, Wildflower Bread Company, Phoenix, AZ, March 14, 2014.
14. "Use of Performance Information for Marketing". Alpha Program Annual Conference, Kalura Trattoria, Palm Springs, CA, January 28, 2014.
15. "Education of the Internal Key Stakeholders on Risk Minimization Program". Neogard Regional Managers Conference, Neogard Headquarters, Dallas, TX, December 23, 2013.
16. "A Value Based Approach to Business". Strategic Business Unit Meeting, Arizona State University, Tempe, AZ, October 29, 2013.
17. "Attracting High Performing Contractors to the Risk Minimization Transparency Program". Manufacturer & Client Educational Meeting, Neogard Headquarters, Dallas, TX, June 27, 2013.
18. "Efficiency through Alignment of Resources with the Use of Performance Information". Manufacturer Executive Meeting, Neogard Headquarters, Dallas, TX, May 31, 2013.
19. "Use of Performance Information to Identify Problem Projects". Neogard Applicator Training, Wyndham Hotel, Dallas, TX, December 7, 2012.
20. "Strategic Plan, Vision & Goals to "Go Public" with Performance Information". General Managers Meeting, PBSRG, ASU, Tempe, AZ, November 7, 2012.
21. "Use of Warranty Information Process to Minimize Risk". Tremco – Arizona State University Joint Effort, Tremco Inc., Cleveland, OH, March 6, 2012.

22. "Manufacturers Approach to Risk Minimization". Best Value Conference, Fiesta Resort, Tempe, AZ, February 14, 2012.
23. "Accountability and Transparency with the Use of Performance Information through Non-technical Information". Alpha Program Annual Conference, Wyndham Hotel, Dallas, TX, February 1, 2012.
24. "Use of Communication during Pre-Award Meeting to Minimize Risk". Client Manufacturer Collaboration Meeting, Neogard Headquarters, Dallas, TX, November 9, 2011.
25. "Identification of Non-performing Roofs Using Visual Inspections". Manufacturer Executive Meeting, Neogard Headquarters, Dallas, TX, August 12, 2011.

UNIVERSITY, ACADEMIC & PROFESSIONAL SERVICE

University Service

- 2018 to Present – Faculty Advisor for ABC Student Chapter

Academic Proceedings Reviewer:

- 2017 to Present – Journal of Facility Management Education and Research
- 2014 to Present – Journal for the Advancement of Performance Information and Value. Council for International Building (CIB)
- 2015 to Present - International Conference of the Associated Schools of Construction (ASC)
- 2012 to 2014 - Royal Institute of Chartered Surveyors (RICS) Construction, Building, and Real Estate Conference

Professional Organizations:

- 2018 to Present – Upstate SC Chapter of IFMA (International Facility Management Association)
 - a. Chapter Member
- 2018 – Served on a judging panel for Excellence Awards for Associated Builders and Contractors, Inc.
- 2014 to 2018 – Greater Phoenix Chapter of IFMA (International Facility Management Association)
 - a. Served as a Treasurer Board Member (2015 – 2018)
 - b. Manage and oversee finances for one of the largest IFMA Chapters in the US (370+ members)

HONORS / AWARDS

- 2009 - Outstanding Service Award
- 2011, 2013 - Obama Scholar Mentor

- 2014 - CFMA (Construction Financial Management Association) Scholarship
- 2015 - Karen Marcel Scholarship – International Facility Management Association
- 2016 - Utilities Council Scholarship – International Facility Management Association
- 2015 - Emerging Leader of the Year IFMA Greater Phoenix Chapter