

CURRICULUM VITAE

NAME: Mohammed S. Hashem M. Mehany

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EDUCATION

- 2014 Doctoral Degree: Ph.D. Civil and Environmental Engineering, Colorado State University.
- 2009 M.S Degree: M.Sc. Construction Management, Colorado State University.
- 2006 B.Sc. Construction Engineering and Manag., Arab Academy for Sc. & Tech. (AAST)

ACADEMIC POSITIONS

- (Fall 2016 - Present) Assistant Professor, Construction Management Dept., Colorado State University
(Fall 2014 - Spring 2016) Assistant Professor, Construction Management, Missouri state University

OTHER POSITIONS

2011 – 2013: Hidaya Village Project – Project Manager “Owner’s representative”, Colorado, USA.

2011 – 2012: Colorado State University facilities Project Management Office – Assistant Project Manager, Colorado, USA.

2006 – 2010: EMPIRE Co. for contracting & Project Management - General Manager and Partner, Cairo, Egypt.

2007 –2008: Sedik Co. for Land reclamation - Executive Manager, Cairo, Egypt.

2005: Site Trainee, (TOCE) Technical Office for contracting & Engineering, Cairo, Egypt.

- Planner & Site Engineer.

2005: Designer and Site Engineer, The Engineering Company for contracting, Cairo, Egypt

2004-2006: Cresset for Gold mining, Cairo, Egypt.

- Mining open pit design in Eastern Desert – Egypt. (Equipment utilization & Site Manager).

2003: ITBE, Cairo, Egypt.

- Marble quarry in Eastern Desert – Egypt.

2002: Site Trainee, (United for Investment & construction development, Cairo, Egypt.

- Supply & Installation of a Drainage pipe network in Beni-suef – Egypt.

2001: Site Trainee, (United for Investment & construction development, Cairo, Egypt.

- Supply & Installation of a Drainage pipe network in Helwan – Egypt.

PUBLISHED WORKS

Refereed Journal Articles:

1. **Hashem Mehany, M.S.** and Gebken R. (2020), “Assessing the Importance and Cognition Level of ACCE’s Student Learning Outcomes: Industry, Educator, and Student Perceptions”. *International Journal of Construction Education and Research*.
2. Killingsworth, J., **Hashem Mehany, M.S.** and Ladhari, H. (2020), "General contractors' experience using off-site structural framing systems", *Construction Innovation*, Vol. (ahead-of-print) No. (ahead-of-print). <https://doi.org/10.1108/CI-05-2019-0038>
3. Diab, M., Gebken, R., and **Hashem M. Mehany, M.S.** (2019). “Strategies to Leverage Contractor Experience: A Construction Manager/General Contractor Case Study”. *ASCE Journal of Legal Affairs and Dispute Resolution*.
4. **Hashem Mehany, M.S.** and Kumar, S. (2019). “Analyzing the Feasibility of Fracking in the U.S. using Macro Level Life Cycle Cost Analysis and Assessment Approaches – A Foundational Study”. *Journal of Sustainable Production and Consumption*.
5. Kumar S., and **Hashem M. Mehany, M.S.** (2019) “Optimizing the Cost, LEED Credits and Time Trade-offs Using a Genetic Algorithmic Model”. *Canadian Journal of Civil Engineering*.
6. **Hashem M. Mehany, M.S.**, Killingsworth, J., and Shah, S. (2019) “An Evaluation of Training Delivery Methods’ Effects on Construction Safety Training and Knowledge Retention - A Foundational Study”. *International Journal of Construction Education and Research*.
7. Killingsworth J., and **Hashem M. Mehany, M.S.** (2018) “Implications of Collection Period Variance in the construction industry”. *Journal of Financial Management of Property and Construction*.
8. **Hashem M. Mehany, M.S.**, Bashettiyavar, G., Esmaeili, B., and Gad, G. (2018) “Claims and Project Performance between Traditional and Alternative Project Delivery Methods”. *ASCE Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*.
9. Marathe, A., **Hashem M. Mehany, M.S.**, Senior, B., & Strong, K. (2017). “Dispute Resolution and Contract Incentives: Perceptions of Project Stakeholders”. *ASCE Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*.
10. Killingsworth, J., Coronis, C., and **Hashem Mehany, M.S.** (2017). “Balancing Personnel Costs & Workload for a Competitive Advantage”, *CFMA Building Profits Magazine for Construction Financial Professionals*, July/August, P.56-61.
11. **Hashem M. Mehany, M.S.** & Guggemos, A. A. (2016). Risk-Managed Lifecycle Costing for Asphalt Road Construction and Maintenance Projects under Performance-Based Contracts. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, 2(4), 05016001.
12. **Hashem M. Mehany, M.S.** and Grigg, N. (2016). Delay Claims in Road Construction – Best Practices for a Management System. *ASCE Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*, 8(3). doi:10.1061/(ASCE) LA.1943-4170.0000186
13. Hill, B., **Hashem M. Mehany, M.S.** and Gebken, R. (2015). “A Framework for Analyzing Intraorganizational Congruence of Safety Practices on Safety Performance – A Pilot Study

- of Construction Subcontractors”, *Journal of the American Institute of Constructors* 40(1).
14. **Hashem Mehany, M.S** and Grigg, N. (2015). “Standardization of Highway Construction Delay Claim Analysis - A Highway Bridge Case Study”, *Journal of Transportation Management*, 25(2).
 15. **Hashem M. Mehany, M. S.**, & Guggemos, A.A (2015). Risk Management for Asphalt Road Construction and Maintenance under Performance-Based Contracts. *International Journal of Construction Education and Research*, 11(4). DOI: 10.1080/15578771.2014.990121
 16. **Hashem M. Mehany, M.S.** and Grigg, N. (2015). Causes of Road and Bridge Construction Claims: Analysis of Colorado Department of Transportation Projects. *ASCE Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*, 7(2), 04514006.

Refereed Proceedings/Transactions:

1. Kumar, S., and **Hashem M. Mehany, M.S.** (2020). “A Conceptual Framework for Transportation Infrastructure Resilience Optimization”, ASC 56th Annual International Conference, Liverpool, U.K.
2. Vasishta, T., and **Hashem M. Mehany, M.S.** (2020). “A Framework for Life Cycle Assessment and Cost Analysis of Precast and Cast-In-Place Buildings in United States”, ASC 56th Annual International Conference, Liverpool, U.K.
3. Parajuli, M., and **Hashem M. Mehany, M.S.** (2020). “Unmanned Aircraft Vehicles in Construction and Engineering Higher Education Programs”, ASC 56th Annual International Conference, Liverpool, U.K.
4. Kumar, S., and **Hashem M. Mehany, M.S.** (2020). “An Integrated Approach towards Measuring and Comparing Cities’ Socio-Economic Resilience”, ASCE Construction Research Congress CRC, Tempe, Arizona.
5. Farnsworth, C., **Hashem M. Mehany, M.S.**, and Bingham, E. (2020). “Assessing the Need for Infrastructure Education within Construction Related Curriculum”, ASCE Construction Research Congress CRC, Tempe, Arizona.
6. Sadeghi, M., Elliot, J., and **Hashem M. Mehany, M.S.** (2020). “Automatic Verification of Facilities Management Handover Building Information Models (BIM)”, ASCE Construction Research Congress CRC, Tempe, Arizona.
7. Kumar, S., and **Hashem M. Mehany** (2020). “A Conceptual Optimization Framework to Solve the Cost, LEED Credits and Time Tradeoff for LEED Certified Buildings”, ASCE Construction Research Congress CRC, Tempe, Arizona.
8. **Hashem M. Mehany, M.S**, Utter, K., Fontana, A., and Valdez-Vaquez, R. (2019). “The Development of a Construction Management Summer Program for Young Females – A Case Study”, ASC 55th Annual International Conference, Denver, Colorado.
9. Kumar, S., and **Hashem M. Mehany, M.S.** (2019). “A Framework of a Conceptual Roadmap for Standardization of Building Life Cycle Assessment Tools”, ASC 55th Annual International Conference, Denver, Colorado.
10. Diab, M., and **Hashem M. Mehany, M.S.** (2019). “Contingency Use and Influential factors on Risk Assessment in Infrastructure Project Risk Management”, 11th International Conference on Construction in the 21st Century, London, UK.

11. Marjan Sadeghi, M., **Hashem M. Mehany**, M.S., & Strong, K. (2018). “Integrating Building Information Models and Building Operation Information Exchange Systems in a Decision Support Framework for Facilities Management”, ASCE Construction Research Congress CRC, New Orleans, Louisiana.
12. Olbina, S., **Hashem M. Mehany**, M.S., and Jesse, K., (2018) “Service Learning Project (SLP) Implementation and Assessment in the Construction Management Programs – A Case Study” ASC 54th Annual International Conference, Minneapolis, MN.
13. **Hashem M. Mehany, M.S.** (2017). “A Research Framework for compiling and Evaluating green infrastructure Incentive Programs”, ASCE International Conference on Sustainable Infrastructure, Brooklyn, N.Y.
14. Ghosh, S., **Hashem M. Mehany, M.S.**, Langar, S., Bhattacharjee, S. (2017). “Prevention through Design (PtD) in AEC Programs: Educators’ Perspective”, ASC 53rd Annual International Conference, Seattle, Washington.
15. **Hashem M. Mehany, M.S.**, and Gebken, R. (2017). “Construction Faculty’s Perception of the American Council for Construction Education’s Bachelor Degree Student Learning Outcomes”, ASC 53rd Annual International Conference, Seattle, Washington.
16. **Hashem M. Mehany, M.S.**, Gad, G. and Esmaeili, B. (2017). “Dispute Prevention and Resolution Methods used on Public Highway Projects Employing Different Project Delivery Methods”, 2017 TRB 96th Annual conference Meeting, Washington D.C.
17. **Hashem M. Mehany, M.S.**, (2016). “Resilient, Sustainable and Green Infrastructure Concepts – A Literature Review and Proposed Preliminary Framework for a Comprehensive Infrastructure Evaluation System (CIES)”, 2016 Construction Research Congress, San Juan, Puerto Rico.
18. **Hashem M. Mehany, M.S.**, (2016). “Identifying Cost Centers and Environmental Impacts Needs Assessment for Fracking Life Cycle in the United States”, ICSDEC 2016, International Conference on Sustainable Design, Engineering and Construction, Tempe, Arizona.
19. **Hashem M. Mehany, M.S.**, Langar, S., Bhattacharjee, S. and Ghosh, S. (2016). “Prevention through Design (PtD): Current State of Knowledge and Implementation in the Design Industry”, ASC 52nd Annual International Conference, Birmingham Young University, Provo, Utah.
20. **Hashem Mehany, M.S.** and Gebken, R. (2016). “A Missouri Exploratory Study of Industry Perception on the American Council for Construction Education’s Bachelor Degree Student Learning Outcomes”, ASC 52nd Annual International Conference, Birmingham Young University, Provo, Utah.
21. **Hashem Mehany, M.S.**, and Guggemos A.A (2015). “A Literature Survey of the Fracking Economic and Environmental Implications in the United States”, paper presented at ICSDEC 2015, International Conference on Sustainable Design, Engineering and Construction, Chicago, Illinois.
22. **Hashem Mehany, M.S.**, (2015). “Lean Construction Principles Past and Present – A Business Model Consistency” paper presented at ASC 51st Annual International Conference, University of Texas A&M, College Station, Texas.
23. **Hashem Mehany, M.S.** and Guggemos, A.A (2013). “Risk Response for Asphalt Road Construction under Performance Based Contracts”, paper presented at ASC 49th Annual International Conference, California Polytechnic State University, San Luis Obispo, California.

HONORS AND AWARDS

- 2019, ASC Regional Teaching Award, ASC Region VI, U.S.
- 2018, Faculty of the Year Award, Construction Management Department, Colorado State University, October 17, 2018
- 2018, 2nd place, Associated Schools of Construction Region 6, Reno, Nevada, February 7-10, 2018 (Team Coach)
- 2017, 1st place, Associated Schools of Construction Region 6, Reno, Nevada, February 8-11, 2015 (Team Coach)
- 2016, ASC National Excellence in Teaching Award, Associated Schools of Construction, U.S.
- 2016, ASC Regional Teaching Award, ASC Region IV, U.S.
- 2011, “GTA of the year” Award, Construction Management Department, Colorado State University.
- 2010, “GTA of the year” Award, Construction Management Department, Colorado State University.
- 2009, CM Department Fellowship, Construction Management Department, Colorado State University.
- 2004, 2005, 2006, Ranked 1st position in the Construction Engineering Department for 3 consecutive years until graduation - Arab Academy for Science & Technology (AAST), Cairo, Egypt.
- 2003, 2004, 2005 Scholarship of Excellence - Arab Academy for Science & Technology (AAST), Cairo, Egypt.
- 2005, The Team Leader in the cooperation Cultural project between AAST & CSU in Financial Management Topic. Arab Academy for Science and Technology (AAST), Cairo, Egypt.
- Best Graduation Project Award in AAST (2006) - The 1st undergraduate student in Egypt to have a graduation project in the Design & construction management of composite structures & Composite trusses, Arab Academy for Science and Technology (AAST), Cairo, Egypt.

CONTRACTS & GRANTS

Externally-Funded Project as PI

2018-2021, Building a Precast Interdisciplinary Generation – A Design-Build Experience, Atadero, R. (CoPI) Precast Institute (PCI), PCI Foundation, \$195,807 of \$227,962

Internally-Funded Awards

- (2017) Conceptual Estimating for Design Build Projects – Facilities Management Application, **Hashem M. Mehany, M.S. (PI)**, Colorado State University Facilities Management Project Management Office (PMO), \$8,652
- (2015) Creation of a Life Cycle Cost Model for the Fracking Process that weigh the Benefit Cost Analysis and the sustainability Impacts of the process, **Hashem M. Mehany, M.S. (PI)**, Missouri State University (MSU Faculty Research Grant), \$7,000.

Un-Funded Projects as PI or CoPI

- (2019) Construction use of Unmanned Aircraft Systems (UAS) for Departments of Transportation (DOTs), **Hashem M. Mehany, M.S.** (PI), Paul Goodrum, Susan Bogus, Christofer Harper, Roy Sturgil, and Gabe Dadi, TRB Construction Management Committee (AFH10) and TRB Emerging Design and Construction Technologies Committee (AFH30), Transportation Research Board (TRB), \$50,000
- (2019) Capturing Knowledge and Expertise of DOTs Retiring/Departing Employees, **Hashem M. Mehany, M.S.** (PI), Behzad Esmaili, TRB Construction Management Committee (AFH10), Transportation Research Board (TRB), \$50,000
- (2019) State of Practice on Infrastructure Inspections for the Digital Age, **Hashem M. Mehany, M.S.** (PI), Behzad Esmaili, TRB Construction Management Committee (AFH10), Transportation Research Board (TRB), \$50,000
- (2019) A Guidebook for Risk-Based Construction Inspection - NCHRP Project 10-102, Marwa Hasson (PI), Husam Sadek (Co-PI), Christofer Harper (Co-PI), **Hashem M. Mehany, M.S.** (Co-PI), and Ghada Gad (Co-PI), TRB Committee on Project Delivery Methods (AFH15), Transportation Research Board (TRB), \$450,000.
- (2018) A Study of the U.S. Roofing Industry and its Workforce, **Hashem M. Mehany, M.S.** (PI), Elliot, Jon Elliot, National Roofing Contractors Association (NRCA), \$126,060.
- (2017) Public Private Partnerships (P3) Incentive Programs in Transportation Projects, **Hashem M. Mehany, M.S.** (PI), Ghada Gad, TRB Committee on Project Delivery Methods (AFH15), Transportation Research Board (TRB), \$50,000.
- (2017) Assessment of the Critical Infrastructure Protection Training and Workforce Development Programs in the Transportation Sector, **Hashem M. Mehany, M.S.** (PI), Gournaga Banik, TRB Standing Committees ABR10(5) Workforce Development Committee of the Standing Committee on Critical Transportation Infrastructure Protection, \$50,000.
- (2017) Service Learning Implementation in Construction Management Education in the United States, **Hashem M. Mehany, M.S.** (PI), Olbina Svetlana, Spencer Foundation, \$50,000.
- (2017) Legal Issues Relating to Large Scale Airport Construction Projects - ACRP 11-01/Topic 10-2, **Hashem M. Mehany, M.S.** (PI), Transportation Research Board TRB - Airport Cooperative Research Program (ACRP), \$75,000.
- (2016) Project Delivery Performance Evaluation and Decision Support Tool for Water and Wastewater Capital Projects, **Hashem M. Mehany, M.S. (PI)**, Ghada Gad, Douglas Gransberg, Neil Grigg, Water Research Foundation (WRF – RFP 4685), \$150,000.
- (2016) Incentives for Green Infrastructure on Private Property: Lessons Learned Water and Wastewater, **Hashem M. Mehany, M.S. (PI)**, Mehmet Ozbek, Neil Grigg, Water Research Foundation (WRF – RFP 4684), \$150,000.

Papers Presented/Symposia/Invited Lectures/Professional Meetings/Workshops

1. (2019) “Precast Interdisciplinary education”, PCI Foundation 2019 Professor Seminar, North Carolina State University, Raleigh, NC.
2. (2019) “The Development of a Construction Management Summer Program for Young Females – A Case Study” ASC 55th Annual International Conference, Denver, CO.
3. (2018) “Service Learning Project (SLP) Implementation and Assessment in the Construction Management Programs – A Case Study” ASC 54th Annual International Conference, Minneapolis, MN.

4. (2018) “Claims and Project Performance between Traditional and Alternative Project Delivery Methods”, ASCE CI Summit, Fort Worth, TX.
5. (2018) Precast Concrete Foundation Education Session, Annual Precast Convention, February 22-24, Denver, CO.
6. (2017) “Dispute Resolution and Contract Incentives: Perceptions of Project Stakeholders”, ASCE CI Summit, Anaheim, CA.
7. (2017) “The PhD Experience - Student and young faculty experience”, ASC 53rd Annual International Conference, Seattle, Washington.
8. (2017) “Prevention through Design (PtD) in AEC Programs: Educators’ Perspective”, ASC 53rd Annual International Conference, Seattle, Washington.
9. (2017) “A Research Framework for compiling and Evaluating green infrastructure Incentive Programs”, ASCE International Conference on Sustainable Infrastructure, Brooklyn, N.Y.
10. (2017) “Construction Faculty’s Perception of the American Council for Construction Education’s Bachelor Degree Student Learning Outcomes”, ASC 53rd Annual International Conference, Seattle, Washington.
11. (2017) “Dispute Prevention and Resolution Methods used on Public Highway Projects Employing Different Project Delivery Methods”, Transportation Research Board (TRB) 96th Annual conference Meeting, Washington D.C.
12. (2016) “Grant writing/professional development workshop”, College of Health and Human Science (CHHS), Colorado State University, Fort Collins, CO.
13. (2016) “Resilient, Sustainable and Green Infrastructure Concepts – A Literature Review and Proposed Preliminary Framework for a Comprehensive Infrastructure Evaluation System (CIES)”, Construction Research Congress, San Juan, Puerto Rico.
14. (2016) “Identifying Cost Centers and Environmental Impacts Needs Assessment for Fracking Life Cycle in the United States”, 4th Annual International Conference on Sustainable Design, Engineering and Construction, Tempe, Arizona.
15. (2016) “A Missouri Exploratory Study of Industry Perception on the American Council for Construction Education’s Bachelor Degree Student Learning Outcomes”, 52nd ASC Annual International Conference, Birmingham Young University, Provo, Utah
16. (2016) “Prevention through Design (PtD): Current State of Knowledge and Implementation in the Design Industry”, 52nd ASC Annual International Conference, Birmingham Young University, Provo, Utah.
17. (2015) “DBIA Design-Build Educator Workshop Scholarship”, Design Build Institute of America (DBIA), Denver, Colorado.
18. (2015) “An exploratory study on the industry’s perspective on the ACCE SLOs”, 23rd Annual ASC Regional Meeting, Region IV, Nebraska City, Nebraska.
19. (2015) “The Environmental Effects of Fracking – Energy Stability vs. Sustainability”, 3rd Annual International Conference on Sustainable Design, Engineering and Construction, Chicago, Illinois.
20. (2015) “Lean Construction Principles Past and Present – A Business Model Consistency”, 51st ASC Annual International Conference, University of Texas A&M, College Station, Texas.
21. (2013) “Risk Response for Asphalt Road Construction under Performance Based Contracts”, 49th Annual International Associated Schools of Construction Conference, San Luis Obispo, California.

TEACHING:

- Construction Planning, Scheduling & Cost Control
- Construction Safety Management
- Construction Equipment Management and Methods
- Construction Contracts and Project Administration
- Precast Concrete Design and Construction
- Construction Cost Estimating
- Facility Design (BIM)
- Introduction to Construction Management

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Clearly differentiate editorial positions (e.g. journal editor/associate editor) from manuscript and grant refereeing.

Memberships in professional societies

Construction Research Congress - CRC (2016- present)
Project Management Institute (PMI), Member (PMP certified) (2006 – Present).
Design Build Institute of America (DBIA), Member (2015 – Present)
American Society of Civil Engineers (ASCE), Member (2005 – Present)
USGBC, (LEED Green Associate) Member
Associated Schools of Construction (ASC), Member (2013 – Present)
Construction Management Association of America (CMAA), Member
Sigma Lambda Chi, Construction Honor Society (2015-present)
Springfield Constructor Association (SCA), Member (2014 - 2016)
Transportation Research Board (2017 – Current)

Office in professional societies

Associated Schools of Construction (ASC), Research Committee, Chair (2019-Present)
Associated Schools of Construction (ASC), Research Committee, Vice Chair (2016-2019)
ASCE, Claim Avoidance and Resolution (CAR) publication subcommittee Chair (2017-Present)
TRB - Standing Committee on Emerging Design and Construction Technologies-AFH30 (2017-Present)

Review/editorial boards

I3CE 2019, PM/CM Track Chair.
(ICSDEC), Special Issue Associate Editor.

Manuscript Refereeing

American Society of Civil Engineers (ASCE)

- ASCE Journal of Construction Engineering and Management
- ASCE Journal of Infrastructure Systems
- ASCE Journal of Legal Affairs and Dispute Resolution

International Journal for Construction Education and Research (IJCER)
Journal of Automation in Construction
Journal of Financial Management of Property and Construction.
Journal of Ecological Economics
Canadian Journal of Civil Engineering (CJCE)
Journal of Resources, Conservation and Recycling
Construction and Building Material International Journal
Associated Schools of Construction (ASC) Annual Conference

Construction Research Congress (CRC) Biannual Conference Reviewer
ASCE International Conference on Sustainable Infrastructure Conference Reviewer
I3CE Conference Reviewer