

CURRICULUM VITAE

CV SECTION 1: Employment History

NAME

Christofer Michael Harper

ADDRESS

Department of Construction Management
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PHONE

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EDUCATION

2014	Ph.D., Civil Engineering, Construction Engineering Management Program, University of Colorado Boulder
2007	M.S., Civil Engineering, Construction Engineering Management Program, University of Colorado Boulder
2005	B.S., Civil Engineering, University of Colorado Boulder

Certifications

2019	Federal Aviation Administration Remote Pilot Certificate
2016	OSHA 7015 Emergency Planning and Evacuation Certificate and Authorized Instructor
2013	Six Sigma Practitioner Certificate
2006	Leadership in Energy and Environmental Design (LEED) Accredited Professional (AP)

ACADEMIC POSITIONS

(2021-present)	Associate Professor, Department of Construction Management, Colorado State University (CSU)
(2018-2021)	Assistant Professor, Department of Construction Management, Colorado State University (CSU)
(2016-2018)	Research and Technology Transfer Coordinator, Transportation Consortium of South-Central States University Transportation Center for Region 6 (Tran-SET UTC), Louisiana State University (LSU)
(2014-2018)	Assistant Professor, Department of Construction Management, Louisiana State University (LSU)
(2011-2014)	Graduate Research Assistant, Department of Civil, Environmental, and Architectural Engineering, University of Colorado Boulder (CU)
(2006-2007)	Graduate Research Assistant, Department of Civil, Environmental, and Architectural Engineering, University of Colorado Boulder (CU)

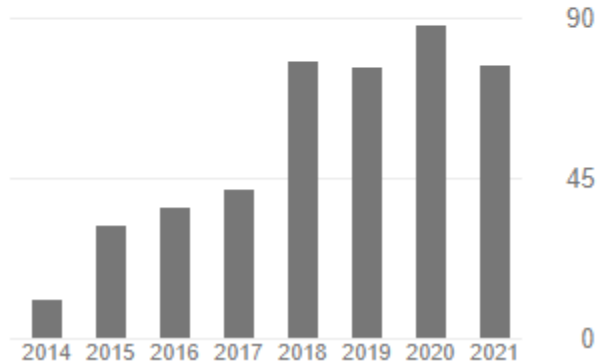
OTHER POSITIONS

(2008-2010)	Project Manager, Tandem Enterprises, Inc., Englewood, CO
(2004-2008)	Program Manager/Owner's Representative, ARC Integrated Program Mgmt., LLC., Boulder, CO
(1999-2003)	Plumber/Foreman, Paul G. Koch Plumbing Co., Inc., Parker, CO

CV SECTION 2: Publications/Research

PUBLISHED WORKS

	All	Since 2016
Citations	462	398
h-index	11	11
i10-index	11	11



Data from Google Scholar: September 2, 2021

(<https://scholar.google.com/citations?user=dApjrY8AAAAJ&hl=en&oi=sra>)

Refereed Journal Articles:

1. ^aParajuli, M., Harper, C.M., Senior, B., and Grigg, N. (2021). "Application of Lean in Highway Agencies: Prevailing Conditions, Benefits, and Challenges," *Transportation Research Record*, Manuscript No. 20-06606, Accepted for Publication on 6/15/2021
2. ^aTummalapudi, M., Killingsworth, J., Harper, C., and Mehany, M. (2021). "U.S. construction industry managerial strategies for economic recession and recovery: A Delphi study." *ASCE Journal of Construction Engineering and Management*, MS COENG-10762, Accepted for Publication on 6/8/2021
3. ^aDuran de Tapia, C., and Harper, C.M. (2021). "Comparison of Energy Consumption and Cost for Geothermal Heat Pump Systems to Conventional Systems in Hot and Humid Climates." *Journal of Civil Engineering and Construction*, 10(2), 84-100. <https://doi.org/10.32732/jcec.2021.10.2.84>
4. ^aKereri, J., Friedland, C., Harper, C., and Nahmens, I. (2021). "Relationship Embeddedness in Construction Project Teams: The Effect of Social Behaviors on Relational Behaviors," *Frontiers in Built Environment*, 7, 1-27. <https://doi.org/10.3389/fbuil.2021.636000>
5. ^aSilva, A., and Harper, C.M. (2021). "Influence of Personality Traits on Team Performance in Construction and Engineering," *Journal of Construction Engineering and Project Management*, Manuscript No. JCEPM-20001, Accepted for publication 1/17/2021.
6. ^aMetro, K., Harper, C.M., and Bogus, S. (2021). "Factors Affecting Workforce Resilience in Public Transportation Agencies," *Journal of Construction Engineering and Management*, American Society of Civil Engineers, 37(4), [https://doi.org/10.1061/\(ASCE\)ME.1943-5479.0000920](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000920)
7. Sharma, D., Mahto, R., Harper, C.M., and Alqattan, S. (2020). "Role of RFID technologies in transportation projects: A review," *International Journal of Technology Intelligence and Planning*, 12(4), pp. 349-377. <https://doi.org/10.1504/IJTIP.2020.10032144>
8. Harper, C.M., Tran, D., and Jaselskis, E. (2020). "Exploring instrumentation and sensor technologies for highway design and construction projects," *Transportation Research Record*, July. <https://doi.org/10.1177/0361198120930718>

9. Tran, D., Harper, C.M., Smadi, A., Mohamed, M. (2020). "Staffing needs and utilization for alternative contracting methods in highway design and construction," *Engineering, Construction and Architectural Management*, Article ID: 644087, April. <https://doi.org/10.1108/ECAM-07-2019-0342>
I helped write the introduction and methodology and reviewed the entire manuscript.
10. Harper, C.M., Tran, D., and Jaselskis, E. (2019). "Emerging technologies for construction delivery," NCHRP Synthesis 534, NCHRP 20-05/Topic 49-02, *Transportation Research Board of the National Academies*, Washington, D.C., 103 pp. <https://doi.org/10.17226/25540>
11. ^aKereri, J. and Harper, C.M. (2019). "Social networks and construction teams: A literature review," *Journal of Construction Engineering and Management*, American Society of Civil Engineers, 145(5), [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0001628](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001628)
12. Tran, D., Harper, C.M., and Gransberg, D. (2018). "Staffing for alternative contracting methods," NCHRP Synthesis 518, NCHRP 20-05/Topic 48-04, *Transportation Research Board of the National Academies*, Washington, D.C., 113 pp. <https://doi.org/10.17226/25211>
13. Tran, D., Harper, C.M., and Minchin, E. (2017). "Strategic program delivery methods," NCHRP Synthesis 504, NCHRP 20-05/Topic 47-06, *Transportation Research Board of the National Academies*, Washington, D.C., 101 pp. <https://doi.org/10.17226/24719>
14. ^aPecoraro, J., Harper, C.M., and Wang, C. (2017). "The uses, benefits, and challenges in unmanned aircraft systems for construction," *Journal of Construction Engineering and Project Management*, Korean Institute of Construction Engineering and Management, 7(2). <http://dx.doi.org/10.6106/JCEPM.2017.7.2.034>
15. Hallowell, M.R., Veltri, A., Harper, C.M., Wanberg, J., and Rajendran, S. (2017). "Impact of design completeness, clarity, and stability on construction safety performance," *Journal of Safety, Health and Environmental Research*, American Society of Safety Professionals, 13(2), pp. 370-377. ISSN: 2168-1368 https://www.assp.org/docs/default-source/jsher/jsher_v13n2.pdf?sfvrsn=69c8fc47_6
16. Harper, C.M., Molenaar, K.R., and Cannon, J.P. (2016). "Measuring constructs of relational contracting in construction projects: The owner's perspective," *Journal of Construction Engineering and Management*, American Society of Civil Engineers, 142(10), [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0001169](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001169)
17. Barry, N.A., Harper, C.M., Berryman, C., and Farley, C. (2016). "Role of self-efficacy in reducing residential energy usage," *Journal of Architectural Engineering*, American Society of Civil Engineers, 22(1). [https://doi.org/10.1061/\(ASCE\)AE.1943-5568.0000196](https://doi.org/10.1061/(ASCE)AE.1943-5568.0000196)
18. Harper, C.M., and Hazelton, R. (2014). "New engineer's knowledge for success with subcontractors and trade partners," *Practice Periodical on Structural Design and Construction*, Special Edition, American Society of Civil Engineers, 19(1), 15-19. [https://doi.org/10.1061/\(ASCE\)SC.1943-5576.0000168](https://doi.org/10.1061/(ASCE)SC.1943-5576.0000168)
19. Harper, C.M., Molenaar, K.R., Anderson, S., and Schexnayder, C. (2014). "Synthesis of performance measures for highway cost estimating," *Journal of Management in Engineering*, American Society of Civil Engineers, 30(3). [https://doi.org/10.1061/\(ASCE\)ME.1943-5479.0000244](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000244)
20. Tran, D.Q., Harper, C.M., Molenaar, K.R., Haddad, N.F., and Scholfield, M.M. (2013). "Project delivery selection matrix for highway design and construction," *Transportation Research Record*, November, 2347, 3-10. <https://doi.org/10.3141%2F2347-01>
21. Wanberg, J., Harper, C.M., Hallowell, M.R., and Rajendran, S. (2013). "Relationship between construction safety and quality performance," *Journal of Construction Engineering and Management*, American Society of Civil Engineers, 139(10), 1-10. [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0000732](https://doi.org/10.1061/(ASCE)CO.1943-7862.0000732)
22. Bogus, S., Diekmann, J.E., Molenaar, K.R., Harper, C.M., Patil, S., and Lee, J.S. (2011). "Simulation of overlapping design activities in concurrent engineering," *Journal of Construction Engineering and Management*, American Society of Civil Engineers, Vol. 137, No. 11, November, pp. 950- 957. [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0000363](https://doi.org/10.1061/(ASCE)CO.1943-7862.0000363)

NOTE: a = Graduate student advised by Dr. Harper

Panel-Reviewed Nationally Published Reports

1. Harper, C.M., ^aHernández, J., Metro, K., Bogus, S., Kommalapati, R., and Doeun, C. (2018). "Recruiting, Retaining, and Promoting for Careers at Transportation Agencies," Project No. 17PPLSU07, *Transportation Consortium of South-Central States Region 6 University Transportation Center*, United States Department of Transportation, Washington, D.C., 80 pp. https://digitalcommons.lsu.edu/transet_pubs/19/

2. Gransberg, D., Harper, C.M., Lopez del Puerto, C., Jeong, D., DeWitt, S., Scheepbouwer, E. and Pinto-Nunez, M. (2017). “AASHTO Partnering Handbook, 2nd Edition,” NCHRP Project 19-10, *Transportation Research Board of the National Academies and the American Association of State Highway and Transportation Officials*, Washington, D.C. 151 pp.
<https://store.transportation.org/Item/PublicationDetail?ID=4025>
3. Molenaar, K., Harper, C., Yugar-Arias, I. (2014). “Guidebook for selecting alternative contracting methods for roadway projects: Project delivery methods, procurement procedures, and payment provisions,” *Transportation Pooled Fund Program*, Study TPF-5(260), Denver, CO., 410 pp.
https://www.colorado.edu/tcm/sites/default/files/attached-files/TPF-5%28260%29%20Project%20No%201%20-%20Guidebook%20for%20selecting%20contracting%20methods%20-%20DRAFT%20FOR%20REVIEW_0.pdf
4. Molenaar, K., Anderson, S., Schexnayder, C., and Harper, C. (2013). “AASHTO Practical Guide to Cost Estimating,” NCHRP Project 20-07/Task 278, *Transportation Research Board of the National Academies and the American Association of State Highway and Transportation Officials*, Washington, D.C., 150 pp.
<https://store.transportation.org/Item/CollectionDetail?ID=122>

Refereed Proceedings/Transactions:

1. ^aTummalapudi, M., Harper, C., and Killingsworth, J. (2020). “Construction Surety Bonding Criteria: The US Perspective,” *Associated Schools of Construction Proceedings of the 56th Annual International Conference*, Vol 1, pp. 338-346.
2. Pathuri, R. Killingsworth, J., and Harper, C. (2020). “Graduate Construction Management Education: A Senior-level, Industry-Based Delphi Study,” *Associated Schools of Construction Proceedings of the 56th Annual International Conference*, Vol 1, pp. 178-186.
3. ^aTummalapudi, M., Killingsworth, J., and Harper, C.M. (2020). “Evaluation of construction surety bonding criterion for changing economic conditions,” *2020 Construction Research Congress*, American Society of Civil Engineers, Tempe, AZ., March 8-10, 2020.
4. ^aMetro, K., Bogus, S.M., and Harper, C.M. (2020). “Challenges to workforce resiliency in rural communities: An analysis of State Departments of Transportation in U.S. Region 6,” *2020 Construction Research Congress*, American Society of Civil Engineers, Tempe, AZ, March 8-10, 2020.
5. ^aMetro, K., Harper, C.M., and Bogus, S. (2019). “Workforce resiliency for careers at public transportation agencies,” *CSCE – CRC Annual Conference*, Canadian Society of Civil Engineers, Construction Research Congress of the American Society of Civil Engineers, Montreal, Quebec, Canada, June 12-16.
6. ^aMetro, K., ^aHernández, J., Harper, C.M., Bogus, S., Kommalapati, R., and Choe, D. (2019). “Recruiting and retaining qualified workers at state transportation agencies,” *2019 Tran-SET Conference*, Transportation Consortium of South-Central States University Transportation Center, San Antonio, TX., April 11-12.
7. Harper, C.M., and Sulbaran, T. (2019). “Measuring reliability of CDMI for decision-making of construction management students,” *ASC 55th Annual International Conference*, the Associated Schools of Construction, Denver, CO, April 10-13.
8. Harper, C.M., and ^aAngerman, J. (2019). “Integration of the project team in delivery methods and procurement procedures,” *ASC 55th Annual International Conference*, Associated Schools of Construction, Denver, CO, April 10-13.
9. ^aKereri, J.O., and Harper, C.M. (2019). “Intangible attributes of partnering: a case study analysis,” *98th TRB Annual Meeting*, Paper No. 19-00125, Transportation Research Board of the National Academies, Washington, D.C., January 13-17.
10. Metro, K., ^aHernández, J., Harper, C.M., Bogus, S., Kommalapati, R., and Choe, D. (2019). “Recruitment, retention, and promotion for careers at transportation agencies,” *98th TRB Annual Meeting*, Paper No. 19-01664, Transportation Research of the National Academies, Washington, D.C., January 13-17, 2019.
11. Mohamed, M., Tran, D., and Harper, C.M. (2019). “Exploring a systematic approach to highway construction program delivery,” *98th TRB Annual Meeting*, Paper No. 19-01688, Transportation Research of the National Academies, Washington, D.C., January 13-17, 2019.
12. Tran, D., Smadi, A.M., Harper, C.M., and Gransberg, D. (2019). “Alternative contracting methods in highways: Staffing needs and utilization,” *98th TRB Annual Meeting*, Paper No. 19-04577, Transportation Research Board of the National Academies, Washington, D.C., January 13-17.

13. Tran, D., Smadi, A.M., Harper, C.M., and Gransberg, D. (2019). "Examination of organizational structures for alternative contracting methods in highways," *98th TRB Annual Meeting*, Paper No. 19-05965, Transportation Research Board of the National Academies, Washington, D.C., January 13-17.
14. Harper, C.M., Hernandez, J., Metro, K., and Bogus Halter, S. (2018). "Workforce and transportation: A perspective from human resources," *2018 World Transport Convention*, Beijing, China, June 18-21, 2018.
15. Pinto Nunez, M., Lopez del Puerto, C., and Harper, C.M. (2018). "Evaluating the quality of transportation guidebooks through vetting: A case study," *2018 Construction Research Congress*, American Society of Civil Engineers, New Orleans, LA., April 2-4, 2018.
16. ^aKereri, J.O., and Harper, C.M. (2018). "Trends in Social Network Research in Construction Teams: A Literature Review," *2018 Construction Research Congress*, American Society of Civil Engineers, New Orleans, LA., April 2-4, 2018.
17. ^aSilva, A. and Harper, C.M. (2018). "Using project team integration to predict cost and schedule performance in public transportation projects," *2018 Construction Research Congress*, American Society of Civil Engineers, New Orleans, LA., April 2-4, 2018.
18. Harper, C.M., and ^aSilva, A. (2018). "Conducting case study research in the transportation industry," *97th TRB Annual Meeting*, Paper 18-05686, Transportation Research Board of the National Academies, Washington, D.C., January 7-11, 2018.
19. Harper, C.M., and ^aWaldrop, C.E. (2016). "Integrating project teams with the use of partnering," *2016 Construction Research Congress*, American Society of Civil Engineers, San Juan, PR., May 31-June 2, 2016.
20. Harper, C.M., and Molenaar, K.R. (2014). "Association between construction contracts and relational contract theory," *2014 Construction Research Congress*, American Society of Civil Engineers, Atlanta, GA., May 19-21, 2014.
21. Harper, C.M., Tran, D., McGuire, T., and Molenaar, K.R. (2014). "selecting a procurement procedure for highway construction projects," *93rd TRB Annual Meeting*, Paper 14-4157, Transportation Research Board of the National Academies, Washington, D.C., January 12-16, 2014.

NOTE: a = Graduate student advised by Dr. Harper

Non-Refereed Journal Articles/Chapters/Proceedings/Transactions:

1. Tran, D., Harper, C.M., and Minchin, E. (2018). "Strategic program delivery methods," *TR News*, Transportation Research Board of the National Academies of Science, Engineering, and Medicine, 314, March/April.
2. Harper, C.M., and Haddad, N. (2018). "Project delivery selection matrix: The Colorado Department of Transportation's project delivery selection process," *TR News*, Transportation Research Board of the National Academies of Science, Engineering, and Medicine, 316, July/August.

Other (e.g. lab texts, book reviews, technical reports, in-house reports):

1. Harper, C.M., Tran, D., and Huang, Y. (2019). "SDDOT Maintenance Decision Support System Implementation Plan," project 2016-07-F, South Dakota Department of Transportation, Pierre, SD., 143 pp.
2. Harper, C.M., and Payne, A.S. (2019). "Advancement of Integration and Partnering on Public Infrastructure Projects, Final Report, Louisiana Board of Regents, Baton Rouge, LA., 159 pp.
3. Harper, C.M., and Molenaar, K.R. (2013). "Cost Estimating and Cost Management Implementation Review," Research Report, Minnesota Department of Transportation, St. Paul, MN., 64 pp.
4. Harper, C.M. (2012). "Crow Nation Sustainable Housing Project: Construction Workforce Development Assessment," Research Report, Good Earth Lodges and Mortenson Center for Engineering in Developing Communities, University of Colorado, 22 pp.

NOTE: a = Graduate student advised by Dr. Harper

CONTRACTS & GRANTS

Externally Funded Projects as PI

(2021-2022) *NCHRP 20-06/Topic 25-06: Legal Issues and Strategies for Best-Value Procurement for Highway Construction*, PI: C. Harper, Co-PIs: M. Mehany (Colorado State University), G. Gad (California State Polytechnic University, Pomona), C. Ryan, J. Burke, N. Smith (Nossaman

LLP). Funding Source: National Cooperative Highway Research Program, Transportation Research Board of the National Academies of Sciences, Engineering and Medicine. Total Funding: **\$100,000**. As the PI, I lead an academic and legal project team to investigate the current state in legal and litigation issues associated with using Best Value procurement to select contractors for highway construction projects.

- (2020-2022) *NCHRP 23-05: Guidance for Training and Certification of Construction Inspectors for Transportation Infrastructure*, PI: C. Harper, Co-PIs: J. Elliott, P. Goodrum (Colorado State University), D. Tran (University of Kansas), T. Taylor, (University of Kentucky), S. Waddle, R. Griffith (Kentucky Transportation Center), D. Hoyne (GPI, Inc.), and J. Kliever (DRB Consulting, LLC). Funding Source: National Cooperative Highway Research Program, Transportation Research Board of the National Academies of Science, Engineering, and Medicine. Total Funding: **\$450,000**. I am leading an experienced and knowledgeable team in developing novel guidance for the education, training, certification, and workforce development of the construction inspector highway construction workforce. As the PI, I am responsible for carrying out the proposed methodology while managing and leading the team to complete the tasks required. Furthermore, I will be leading the efforts to develop and host a workshop with industry experts on construction inspectors for highway projects.
- (2019-2020) *NCHRP Synthesis 20-05/Topic 51-17: Practices for Closing Out Highway Projects from Substantial Completion to Final Payment*, PI: C. Harper, Co-PIs: T. Taylor (University of Kentucky), Steve Waddle, and Rachel Catchings (Kentucky Transportation Center). Funding Source: National Cooperative Highway Research Program, Transportation Research Board of the National Academies of Science, Engineering, and Medicine. Total Funding: **\$45,000**. As the PI, I am leading the research team in conducting an extensive literature review of current information on closing out highway construction projects as well as developing a survey questionnaire to collect data from state transportation agencies. I conducted extensive case studies with eight state transportation agencies to collect information on the current practices, challenges, and lessons learned for effectively closing out highway construction projects. With the assistance of the research team, I was able to analyze the collected data and led the writing of the final report.
- (2017-2018) *NCHRP Synthesis 20-05/Topic 49-02: Emerging Technologies for Construction Delivery*, PI: C. Harper, Co-PIs: D. Tran (University of Kansas), and E. Jaselskis (North Carolina State University). Funding Source: National Cooperative Highway Research Program, Transportation Research Board of the National Academies of Science, Engineering, and Medicine. Total Funding: **\$45,000**. As the PI, I led the research efforts throughout the project. I conducted a literature review with assistance from the research team, developed and distributed a national survey, and conducted 7 case studies with 7 state DOTs. I also performed the data analysis with and developed the final synthesis report with assistance from the research team. (<https://www.nap.edu/catalog/25540/emerging-technologies-for-construction-delivery>).
- (2017-2018) *Tran-SET Project No. 17PPLSU07: Recruiting, Retaining, and Promoting for Careers at Transportation Agencies*, PI: C. Harper, Co-PIs: S. Bogus (University of New Mexico), R. Kommalapati, and D. Choe (Prairie View A&M University). Funding Sources: Transportation Consortium of South-Central States (Tran-SET) Region 6 University Transportation Center, Office of the Assistant Secretary for Research and Technology, United States Department of Transportation. Total Funding: **\$204,500**. I led the research efforts throughout the technical and implementation phases of the project. I led the interview and survey process, conducted the data analysis with assistance from graduate students and review by the research team. I also led the development of the final report based on the data collected and analyzed by the research team. The team and I then disseminated the results and conducted transportation education and training workshops as a part of the implementation phase of the project. (https://digitalcommons.lsu.edu/transet_pubs/19/)
- (2016-2018) *SDDOT Project No. SD2016-07: South Dakota Department of Transportation (SDDOT) Maintenance Decision Support System (MDSS) Operation Plan*, PI: C. Harper, Co-PIs: D. Tran (University of Kansas), and Y. Huang (South Dakota State University). Funding Source: South Dakota Department of Transportation. Total Funding: **\$100,000**. As the PI, I engaged the sponsor

to conduct an intensive interview process of current SDDOT employees, which entailed 82 interviewees over 5 days. I also collected the data and conducted the benefit-cost analysis while discussing the MDSS with other state DOTs for best practices. I compiled the data collected by the research team into the final report of MDSS enhancements and strategies, which he presented to the SDDOT Research Board. Implementation of the MDSS strategies in the report are on-going.

- (2015-2019) *LEQSF(2015-18)-RD-A-05: Advancement of Integration and Partnering on Public Infrastructure Projects*, PI: C. Harper. Funding Source: Louisiana Board of Regents Research Competitiveness Subprogram, State of Louisiana. Total Funding: **\$110,294**. This project was a state of Louisiana grant intended for me to extend his dissertation research to further exploration. I investigated highway and water/wastewater construction project teams and their ability to integrate and perform at a high level. A framework of strategies for project team integration was developed in this study and documented in a final report as well as disseminated in two conference proceedings.
- (2011-2012) *Crow Nation Sustainable Housing Project: Construction Workforce Development Assessment*, PI: C. Harper, Funding Source: Mortenson Center in Engineering for Developing Communities, University of Colorado Boulder. Total Funding: **\$10,800**. I assessed the Crow Nation Sustainable Housing Project to create an avenue for Native Americans to learn and perform the construction processes needed to construct compressed earth-block homes that are being construction for the Crow Nation in Montana. I completed this project as a doctoral graduate student while at the University of Colorado Boulder under the guidance of Dr. Keith Molenaar.

Externally-Funded Projects as Co-PI

- (2020-2021) *NCHRP Synthesis 20-05/Topic 52-01: Highway Infrastructure Inspection Practices for the Digital Age*, PI: D. Tran (University of Kansas), Co-PIs: C. Harper, Roy Sturgill (Iowa State University). Funding Source: National Cooperative Highway Research Program, Transportation Research Board of the National Academies of Science, Engineering, and Medicine. Total Funding: **\$45,000**. As a co-PI, I am assisting the PI in conducting an extensive literature review of current information on technologies used for construction inspections and asset management. I lead the efforts for conducting extensive case studies with nine state transportation agencies to collect information on the current practices, challenges, and lessons learned for the use of geospatial, remote sensing, mobile devices, and non-destructive evaluation technologies in construction inspections and asset management.
- (2018-2019) *Tran-SET Project No. 18PPLSU04: Strategies for Prioritizing Needs for Accelerated Construction after Hazard Events*, Co-PI: V. Valentin (University of New Mexico), Co-PI: C. Harper. Funding Source: Transportation Consortium of South-Central States Region 6 University Transportation Center, Office of the Assistant Secretary for Research and Technology, United States Department of Transportation. Co-PI Funding: **\$30,000**. I helped lead the initial efforts for this project as I helped develop the awarded proposal by assisting Dr. Valentin. When the project began, Dr. Valentin left the project and I moved forward with conducting a literature review of transportation resiliency and recovery from disasters. Further, I developed the plan to conduct focus groups with transportation recovery experts. However, I moved onto CSU and was unable to continue on with this project after leaving LSU. The final outcome of this project developed a decision-support tool for recognizing and prioritizing transportation recovery efforts during and after a disaster strike.
- (2016-2017) *NCHRP Synthesis 20-05/Topic 48-04: Staffing for Alternative Contracting Methods*, PI: D. Tran (University of Kansas), Co-PIs: C. Harper, and D. Gransberg (Gransberg & Associates, Inc.). Funding Source: National Cooperative Highway Research Program, Transportation Research Board of the National Academies of Science, Engineering, and Medicine. Co-PI Funding: **\$8,000**. As a Co-PI, I assisted with developing a survey questionnaire on staffing for project delivery methods that include design-bid-build, design-build, and construction manager at-risk. The survey data collected was from state transportation agencies and I helped the PI analyze the data along with the PI. One of my primary tasks in this study was to conduct case studies with eight selected state transportation agencies to determine the current state of practice and develop a list

of practices for staffing highway construction projects that implement alternative delivery methods. (<https://www.nap.edu/catalog/25211/staffing-for-alternative-contracting-methods>).

- (2016-2020) *US DOT OST-R University Transportation Center Program*, PI: M. Hassan, Co-PIs: C. Berryman, T. Rupnow, C. Harper, C. Wang, M. Elseifi, and L. Mohammad. Funding Source: Office of the Assistant Secretary for Research and Technology, United States Department of Transportation. Total Funding (over five years): **\$5,175,800**. I assisted the PI and other Co-PIs develop a comprehensive proposal for a regional University Transportation Center, which was awarded to the Louisiana State University Department of Construction Management in December 2016. Between December 2016 and August 2018, I worked as the Research and Technology Transfer Coordinator for the University Transportation Center called The Transportation Consortium of South-Central States, or Tran-SET, which was a result of the successful research grant award. The University Transportation Center provided an avenue of research support for various projects investigating topics related to improving the durability and extending the life of infrastructure, preserving the environment, preserving the existing transportation system while focusing on immediate regional transportation priorities for Region 6 State departments of transportation. (<http://transet.lsu.edu/>)
- (2015-2016) *NCHRP Synthesis 20-05/Topic 47-06: Strategic Program Delivery Methods*, PI: D. Tran (University of Kansas), Co-PIs: C. Harper, and E. Minchin (University of Florida). Funding Source: National Cooperative Highway Research Program, Transportation Research Board of the National Academies of Science, Engineering, and Medicine. Co-PI Funding: **\$10,000**. I was tasked with helping develop a survey questionnaire to investigate the current state of practice among all state transportation agencies for the delivery of programs of projects for highway construction. Then, the primary task for me was to conduct in-depth case studies with seven state departments of transportation to gather common practices, success factors, challenges, and lessons learned in delivering programs of highway construction projects. (<https://www.nap.edu/catalog/24719/strategic-program-delivery-methods>).
- (2015-2017) *NCHRP 19-10: AASHTO Partnering Handbook, Second Edition*, PI: D. Gransberg (Iowa State University), Co-PIs: C. Harper, C. Lopez del Puerto (University of Puerto Rico), D. Jeong (Iowa State University), S. DeWitt (ACS Infrastructure Development, Inc.), and E. Scheepbouwer (University of Canterbury). Funding Source: National Cooperative Highway Research Program, Transportation Research Board of the National Academies of Science, Engineering, and Medicine. Co-PI Funding: **\$120,286**. The primary purpose of this study was to develop a new edition of the AASHTO Partnering Handbook, which was originally drafted in the early 2000s and was in need of an update. I was tasked, along with my graduate research assistant, with investigating the intangible benefits of implementing partnering into the highway transportation construction project process. The intangibles of partnering were determined from interviews and surveys with state transportation agency officials and the research team then developed quantitative values for the intangible benefits for state transportation agencies to consider when implementing partnering into highway construction projects. Also, I helped the PI develop a partnering maturity model as well as a cost-benefit analysis for the use of partnering on various construction projects using various project delivery methods.

Externally Funded Projects as Investigator or role other than PI or Co-PI

- (2013-2015) *FHWA Project DTFH61-13-R-00019: Qualifications of Cost, Benefits, and Risks Associated with Alternative Contracting Methods and Accelerated Project Specifications*, PI: K. Molenaar, Co-PI: D. Tran (University of Kansas), and S. Scott (Hill International, Inc.), Graduate Research Assistant: C. Harper. Funding Source: Federal Highway Administration. Total Funding: **\$426,443**.
- (2013-2013) *Cost Estimating/Cost Management Implementation Review*, PI: K. Molenaar, Graduate Research Assistant: C. Harper. Funding Source; Minnesota Department of Transportation. Total Funding; **\$21,100**.
- (2012-2013) *Project Delivery Selection Matrix*, PI: K. Molenaar, Graduate Research Assistant: C. Harper. Funding Source: Design-Build Institute of America (DBIA) Rocky Mountain Region Water/Wastewater Committee. Total Funding: **\$14,000**.

- (2012-2014) *Guidebook for Selecting Highway Project Delivery Methods and Alternative Contracting Strategies*, PI: K. Molenaar, Graduate Research Assistant: C. Harper. Funding Source: Next Generation Transportation Construction Management Transportation Pooled Fund Program TPF-5(260), Colorado Department of Transportation. Total Funding: **\$335,000**.
- (2010-2013) *NCHRP 10-83: Alternative Quality Systems for Highway Construction*, PI: K. Molenaar, Co-PIs: D. Gransberg (Iowa State University), and D. Sillars (Oregon State University), Graduate Research Assistant: C. Harper. Funding Source: National Cooperative Highway Research Program, Transportation Research Board of the National Academies of Science, Engineering, and Medicine. Total Funding: **\$500,000**.
- (2009-2011) *NCHRP 20-07, Task 278: AASHTO Practical Guide to Estimating*, PI: K. Molenaar, Co-PIs: S. Anderson (Texas A&M University), and C. Schexnayder (Arizona State University). Graduate Research Assistant: C. Harper. Funding Source: National Cooperative Highway Research Program, Transportation Research Board of the National Academies of Science, Engineering, and Medicine. Total Funding: **\$135,000**.
- (2003-2007) *CMS-0324342: A Methodology to Reconfigure the Design Construction Interface for Fast-Track Projects*, PI: S. Bogus (University of New Mexico), Co-PIs: J. Diekmann, and K. Molenaar, Graduate Research Assistant: J. Coker, and C. Harper. Funding Source: National Science Foundation. Total Funding: **\$253,331**.

Internally-Funded Awards

- (2019-2020) *Open Education Resource Materials Grant*, PI: C. Harper. Funding Source: Colorado State University Libraries. Total Funding: **\$2,000**. I used the funds from this grant to develop open education resources (OER) materials for CON 371 Mechanical and Plumbing Systems course within the Department of Construction Management at CSU. Materials that were created are available at: <https://hdl.handle.net/10217/208827>.

PAPERS PRESENTED/ SYMPOSIA/ INVITED LECTURES/ PROFESSIONAL MEETINGS/ WORKSHOPS

1. *2020, Recruiting and Retaining a State Transportation Agency Workforce in Rural Communities, 2020 AASHTO Committee on Construction (CoC) Annual Meeting, Virtual meeting due to COVID-19 Pandemic, August 11.
2. 2020, Challenges to Workforce Resiliency in Rural Communities: An Analysis of State Departments of Transportation in U.S. District 6, Research Presentation, 2020 Construction Research Congress (CRC) Conference, Tempe, AZ., March 8-10.
3. 2020, Implementation of Visualization and Modeling Technologies for Highway Construction: Current Practices and Future Trends, Poster Session, 99th Annual TRB Annual Meeting, Washington, D.C. January 12-16.
4. 2020, Exploring Instrumentation and Sensor Technologies for Highway Design and Construction, Poster Session, 99th Annual TRB Annual Meeting, Washington, D.C. January 12-16. ***Awarded Best Poster by the TRB AFH10 Standing Committee on Construction Management***
5. *2019, Research Needs Statements Collaboration Between AASHTO CoC and TRB AFH10 Committee, Presentation for Contract Administration and Research Subcommittees, American Association of State Highway and Transportation Officials (AASHTO) Committee on Construction (CoC) Annual Meeting, Franklin, TN, August 12 – 13.
6. 2019, Measuring Reliability of CDMI for Decision-Making of Construction Management Students, ASC 55th Annual International Conference, Associated Schools of Construction, Denver, CO, April 10-13.
7. 2019, Integration of the Project Team in Delivery Methods and Procurement Procedures, ASC 55th Annual International Conference, Associated Schools of Construction, Denver, CO, April 10-13.
8. 2019, Emerging Technologies for Construction Delivery, Presentation for AFH40 – Construction of Bridges and Structures Committee, 98th TRB Annual Meeting, Washington, D.C., January 16.
9. 2019, Emerging Technologies for Construction Delivery, Presentation for AFH10 – Construction Management Committee, 98th TRB Annual Meeting, Washington, D.C., January 15.

10. 2019, Emerging Technologies for Construction Delivery, Presentation for AFH30 – Emerging Technologies in Construction Committee, 98th TRB Annual Meeting, Washington, D.C., January 14.
11. 2019, Recruitment, Retention, and Promotion for Careers at Transportation Agencies, Poster Session, 98th TRB Annual Meeting, Washington, D.C., January 14.
12. 2019, Alternative Contracting Methods in Highways: Staffing needs and utilization, Poster Session, 98th TRB Annual Meeting, Washington, D.C., January 14.
13. 2019, Examination of Organizational Structures for Alternative Contracting Methods in Highways, Poster Session, 98th TRB Annual Meeting, Washington, D.C., January 14.
14. 2019, Exploring a Systematic Approach to Highway Construction Program Delivery, Poster Session, 98th TRB Annual Meeting, Washington, D.C., January 14.
15. *2018, Recruiting and Retaining Qualified Workers at State Transportation Agencies, American Association of State Highway and Transportation Officials (AASHTO) Committee on Construction (CoC) Annual Meeting, Pittsburgh, PA, August 13.
16. *2018, Research Needs Statements Collaboration Between AASHTO CoC and TRB AFH10 Committee, Presentation for Contract Administration and Research Subcommittees, American Association of State Highway and Transportation Officials (AASHTO) Committee on Construction (CoC) Annual Meeting, Pittsburgh, PA, August 13 – 14.
17. 2018, Trends in Social Network Research in Construction Teams: A Literature Review, 2018 Construction Research Congress (CRC) Conference, American Society of Civil Engineers, New Orleans, LA, April 4.
18. 2018, Evaluating the Quality of Transportation Guidebooks through Vetting: A Case Study, 2018 Construction Research Congress (CRC) Conference, American Society of Civil Engineers, New Orleans, LA, April 3.
19. 2018, Using Project Team Integration to Predict Cost and Schedule Performance in Public Transportation Projects, 2018 Construction Research Congress (CRC) Conference, American Society of Civil Engineers, April 3.
20. 2018, Intangible Attributes of Partnering: A Case Study Analysis, Poster Session, 97th TRB Annual Meeting, Washington, D.C., January 11. ***Awarded Best Poster by the TRB AFH10 Standing Committee on Construction Management***
21. 2018, Emerging Technologies for Construction Delivery: Scope and Data Collection, Presentation for AFH40 – Construction of Bridges and Structures Committee, 97th TRB Annual Meeting, Washington, D.C., January 10.
22. 2018, Staffing for Alternative Contracting Methods, Presentation for AFH10 – Construction Management Committee, 97th TRB Annual Meeting, Washington, D.C., January 8.
23. 2018, Conducting Case Study Research in the Transportation Industry, Presentation for ABG10 – Conduct of Research Committee Meeting, 97th TRB Annual Meeting, Washington, D.C., January 8.
24. *2017, Research Needs Statements Collaboration Between AASHTO CoC and TRB AFH10 Committee, Presentation for Research Subcommittee, American Association of State Highway and Transportation Officials (AASHTO) Committee on Construction (CoC) Annual Meeting, Cincinnati, OH, August 15.
25. 2017, Planning/ITS/Intermodal/Safety Request for Problem Statements, Louisiana Transportation Research Center Mini-Workshop, Baton Rouge, LA, January 20.
26. *2016, “Sustainability and Construction Management Research,” Presentation for the Department of Civil Engineering at University of Kentucky, Lexington, KY, October 27.
27. *2016, “Research Needs Statements for AASHTO SoC and TRB AFH-10 Committee,” Presentation for Research Subcommittee, American Association of State Highway and Transportation Officials (AASHTO) Subcommittee on Construction (SoC) Annual Meeting, Big Sky, MT, August 16.
28. 2016, Integrating Project Teams with the Use of Partnering, 2016 Construction Research Congress (CRC) Conference, American Society of Civil Engineers, San Juan, PR., June 1.
29. *2015, Research Needs Statements Collaboration Between AASHTO SoC and TRB AFH-10 Committee, Presentation for Research Subcommittee, American Association of State Highway and Transportation Officials (AASHTO) Subcommittee on Construction (SoC) Annual Meeting, Little Rock, AR, August 11.
30. 2015, Planning/ITS/Intermodal/Safety Request for Problem Statements, Louisiana Transportation Research Center Mini-Workshop, Baton Rouge, LA, February 10.
31. 2014, Association between Construction Contracts and Relational Contract Theory, 2014 Construction Research Congress (CRC) Conference, American Society of Civil Engineers, Atlanta, GA, May 20.
32. 2014, New Engineer’s Knowledge for Success with Subcontractors and Trade Partners, 2014 Construction Engineering Conference: Leveraging Project and Career Success, Seattle, WA, March 27.

33. 2014, Selecting a Procurement Procedure for Highway Construction Projects, Poster Session, 93rd Annual TRB Meeting, Washington, D.C., January 13.
34. *2013, Formal Approach to Project Delivery Selection, Design Build Institute of America, Rocky Mountain Region Regional Conference, Denver, CO, May 23.
35. 2013, A Project Delivery Selection Matrix for Highway Design and Construction, Poster Session, 92nd Annual TRB Meeting, Washington, D.C., January 14.
36. *2011, Review of the Practical Guide to Estimating, AASHTO Technical Committee on Cost Estimating Conference (TEA-TUG), Minneapolis, MN, September 14.

NOTE: * = Invited to Present

CV SECTION 3: Teaching

TEACHING:

Colorado State University

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2021	Fall	CON 461 – Construction Scheduling (5 lecture sections & 8 lab sections)	5x2=10	114
2021	Spring	CON 461 – Construction Scheduling (4 lecture sections & 6 lab sections)	4x2=8	104
2020	Fall	CON 461 – Construction Scheduling (3 lecture sections & 6 lab sections)	3x2=6	101
2020	Spring	CON 371 – Mechanical and Plumbing Systems	1x3=3	18
2020	Spring	CON 512 – Post-Award Construction Management	1x3=3	8
2019	Fall	CON 461 – Construction Scheduling (3 lecture sections & 6 lab sections)	3x2=6	91
2019	Spring	CON 371 – Mechanical and Plumbing Systems	1x3=3	29
2019	Spring	CON 512 – Post-Award Construction Management	1x3=3	5
2018	Fall	CON 461 – Construction Scheduling (3 lecture sections & 6 lab sections)	3x2=6	73
SUMMARY			48	543

Louisiana State University

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>
2018	Summer	CM 3201 – Mechanical and Electrical Systems	3	23
2017	Fall	CM 4221 – Construction Project Management	3	83
2017	Fall	CM 3201 – Mechanical and Electrical Systems	3	95
2017	Fall	CM 3200 – Mechanical and Electrical Systems (Online)	3	69
2017	Spring	CM 7030 – Project Delivery	3	17
2017	Spring	CM 7030 – Project Delivery (Online)	3	45
2017	Spring	CM 4221 – Construction Project Management	3	59
2016	Fall	CM 4221 – Construction Project Management	3	77
2016	Fall	CM 3201 – Mechanical and Electrical Systems	3	48
2016	Fall	CM 3200 – Mechanical and Electrical Systems (Online)	3	63
2016	Summer	CM 3200 – Mechanical and Electrical Systems (Online)	3	46
2016	Spring	CM 4221 – Construction Project Management	3	32
2015	Fall	CM 4221 – Construction Project Management	3	68
2015	Fall	CM 3201- Mechanical and Electrical Systems	3	30
2015	Fall	CM 3200 – Mechanical and Electrical Systems (Online)	3	30
2015	Summer	CM 3200 – Mechanical and Electrical Systems (Online)	3	34
2015	Spring	CM 7030 – Project Delivery	3	13
2015	Spring	CM 7030 – Project Delivery (Online)	3	41
2015	Spring	CM 4221 – Construction Project Management	3	14
2014	Fall	CM 4200 – Construction Administration	3	42
SUMMARY			60	929

Participation in Professional Development Activities Related to Teaching

- (2020) *ASCE Excellence in Civil Engineering Education (ExCEED) Community Exchange*, Online Teaching Workshop, August 3-6. Attended a series of 90-minute presentations from ASCE ExCEED mentors and assistant mentors along with participating in an exchange of ideas among the mentors and other participants. The focus of the workshop is on the topics of virtual, hybrid, and in person teaching during the COVID-19 pandemic.
- (2020) *CSU Online, CFPD 100 Designing Your Online Course*, June 17 – June 30. Course offered through CSU Online to help faculty know how to build an online course. This was an excellent refresher course for building an online class and it will be helpful for teaching interactive online classes during the COVID-19 pandemic.
- (2020) *CSU The Institute for Learning and Teaching (TILT), Best Practices in Teaching (BPiT) Online Course*, Modules 4-6, February 5 – April 26.
- (2019) *CSU The Institute for Learning and Teaching (TILT), Best Practices in Teaching (BPiT) Online Course*, Modules 1 – 3, September 16 – November 17.
- (2019) *Building a Stronger Curriculum with Kiewit*, Teaching Workshop with Kiewit University, Omaha, NE, July 22 – 24. Additional information discussed in the previous section.
- (2017) *Building a Stronger Curriculum with Kiewit*, Teaching Workshop with Kiewit Corporation, Denver, CO, June 14 – 16. Additional information discussed in the previous section.
- (2015) *ASCE Excellence in Civil Engineering Education (ExCEED) Teaching Workshop*, United States Military Academy, West Point, New York, July 19 – 24. Additional information discussed in the previous section.
- (2015) *MEAC Mechanical and Electrical Faculty Boot Camp*, Siloam Springs, Arkansas, June 2 – 4, 2015. I was invited to attend the mechanical and electrical teaching workshop to hone my skills to teach mechanical and electrical systems. My background in the trades as a plumber allowed me to use my knowledge on the MEP trades, but translating that to the classrooms can be a challenge. The topics covered in this workshop, including heating and cooling systems, plan reading and isometrics, domestic water systems, drainage systems, fire protection, electrical systems, and MEP estimating among others, helped me learn proper tools and techniques to teach students about these critical trades in a construction project. To this day, I use many of the tools and techniques learned at this boot camp in CON 371 – Mechanical and Plumbing Systems. Additionally, I currently have access to all MEAC boot camp materials, which I use to update and enhance learning materials for students every year.
- (2014) *LSU Online Faculty Orientation*, December 2014. The orientation was a month long, self-paced class that compared how you teach face-to-face classes to teaching online classes and how to transition to an online environment. Tools I gained from this orientation helped me to transition a class from face-to-face to online and gave me techniques on how to make an online class interactive.
- (2014) *Online Learning Consortium Workshop*, New to Online: The Essentials, December 5 – 12, 2014. Online course that helped me learn how to set up and facilitate an online course, which I was required to teach at LSU.

CV SECTION 4: Evidence of Outreach/Service/Engagement

COMMITTEES

1. Faculty Council Committee on Scholarship, Research and Graduate Education (CoSRGE), Colorado State University (2019-present)
2. Research Committee, College of Health and Human Sciences, Colorado State University (2019-present)
3. CM T&P Committee, Department of Construction Management, Colorado State University (2021 – present)
4. CM Assessment Committee, Department of Construction Management, Colorado State University (2020–present)
5. Teaching Effectiveness Committee, Department of Construction Management, Colorado State University (2019 – present)

6. Graduate Committee, Department of Construction Management, Colorado State University (2018 – present)
7. Graduate Committee, Department of Construction Management, Louisiana State University (2014-2018)
8. Graduate Admissions Committee, Department of Construction Management, Louisiana State University (2014-2018)

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

1. *Member*, Technical Working Group, Federal Highway Administration EDC-5 Project Bundling (2019-present)
2. *Peer Reviewer*, International Journal of Construction Management (2019 – present)
3. *Handling Editor*, Transportation Research Record: Journal of the Transportation Research Board, Sage Publishing, Inc. (2019 – present)
4. *Member*, Sigma Lambda Chi (2019 – present)
5. *Member*, Associated Schools of Construction (2018 – present)
6. *Member*, American Society for Engineering Education (2018 – present)
7. *Research Project Panel Member*, NCHRP Project 10-99: Framework for Implementing Constructability Across the Entire Project Development Process: NEPA to Final Design, Transportation Research Board of the National Academies of Science, Engineering, and Medicine (2017 – present)
8. *Member*, Transportation Research Board AKC40 – Construction of Bridges and Structures Committee (Formerly known as AFH40) (2018 – present)
9. *Member*, Transportation Research Board ABG10 – Conduct of Research Committee (2018 – 2020)
10. *Member and Committee Research Coordinator*, Transportation Research Board AKC10 – Committee on Construction Management (Formerly known as AFH10) (2015 – present)
11. *Peer Reviewer*, ASCE Construction Research Conference (2014-present)
12. *Peer Reviewer*, TRB Annual Meeting (2014-present)
13. *Peer Reviewer*, ASCE Journal of Management in Engineering (2013 – present)
14. *Peer Reviewer*, ASCE Journal of Construction Engineering and Management (2012 – present)
15. *Member*, Construction Management Association of America (2012 – present)
16. *Academic Member*, Colorado Department of Transportation Innovative Contracting Advisory Committee (CDOT ICAC) (2012-2014)
17. *Student Member*, Design-Build Institute of America Rocky Mountain Region Water/Wastewater Committee (DBIA RMR W/WW) (2012-2014)
18. *Student Member*, Next-Generation Transportation Construction Management Advisory Committee (TCM) (2011-2014)
19. *Associate Member*, American Society of Civil Engineers (2004 – present)

OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

Professional Development Workshop Participation

Harper, C.M. (2019). “EDC5 Initiative: Project Bundling – Implementation Support,” Technical Working Group, Federal Highway Administration, Office of Preconstruction, Pavements, and Construction, January 29, 2019, Online Webinar.

Harper, C.M. (2018). “EDC5 Initiative: Project Bundling – Implementation Support,” Technical Working Group, Federal Highway Administration, Office of Preconstruction, Pavements, and Construction, July 17, 2018, Arlington, VA.

Harper, C.M. (2017). “BTR Summit,” Traffic Symposium for the City of Baton Rouge, April 25, 2017, Baton Rouge, LA

Harper, C.M. (2015). “Construction Management at-Risk (CMAR) Stakeholder Workshop,” Louisiana Transportation Research Center and the Louisiana Department of Transportation and Development, July 30, 2015, Baton Rouge, LA.

ENGAGEMENT

Professional Development Hosted Webinars

Harper, C.M., Tran, D., and Jaselskis, E. (2019). “Emerging Technologies for Construction Delivery,” Nationally Broadcasted Live Webinar, Transportation Research Board of the National Academies of Science, Engineering, and Medicine, September 18, 2019, Presented Online. Total attendance of construction professionals, faculty, and researchers: 249 with 93% stating they were satisfied with the webinar.

Hosted Conferences

Berryman, C., Harris, R., Harper, C.M., Wang, C., and Lee, Y. (2016-2018). “ASCE Construction Research Congress (CRC) Conference,” Technical and Planning Committee for hosting the 2018 Construction Research Congress Conference, April 2-4, 2019, New Orleans, LA. Attendees: Construction and civil engineering faculty and construction industry professionals from around the world. Total attendance: 563.

Professional Development Facilitated Workshops

Konda, T., Harper, C.M., Frankl, B., and LaViolette, M. (2020). “Automating Bridge Construction through Robotics and 3D Printing,” 99th TRB Annual Meeting, Workshop NGW20-0006, January 12, 2020, Washington, D.C. Attendees: Construction professionals, researchers, and faculty. Total attendance: 72.

Harper, C.M., Lopez del Puerto, C., Pinto Nunez, M., and Kereri, J., (2017). “AASHTO Partnering Handbook Vetting Workshop, Florida Department of Transportation, February 10, 2017, Orlando, FL. Attendees: Employees of Florida DOT from across the state. Total attendance: 14.

Harper, C.M. (2016). “Construction Management At-Risk,” Facilitated a Training Session for The New Orleans Department of Public Works, February 26, 2016, New Orleans, LA. Attendees: New Orleans Department of Public Works employees. Total attendance: 16.

Harper, C.M. (2016). “The Effective Use of Construction Management at-Risk,” Presentation/Discussion for Construction Management Association of America (CMAA) Gulf Coast Chapter Professional Development Session, March 24, 2016, Gulfport, MS. Attendees: Construction contractors and owners. Total attendance: 37.

Harper, C.M. (2015). “Alternative Delivery Methods: A Different Way of Doing Business,” Panel Member for Construction Management Association of America (CMAA) Gulf Coast Chapter Professional Development Session, March 27, 2015, New Orleans, LA. Attendees: Construction contractors, owners, and consultants. Total Attendance: 42.