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Associate Professor and Stirrat Faculty Scholar
 Department of Civil, Architectural & Environmental Engineering
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EDUCATION

- 2007 Ph.D. Purdue University (Civil Engineering), West Lafayette, Indiana
 Dissertation: “Influence of Member Depth on the Shear Strength of Concrete Beams.”
 Advisor: Dr. Julio Ramirez, Professor of Civil Engineering
- 1997 M.S.C.E. Georgia Institute of Technology (Civil Engineering), Atlanta, Georgia
 Report: “An Investigation of Bond Between Concrete and Externally Bonded Carbon
 Fiber Reinforced Plastic Plates.”
 Advisor: Dr. Riyad Aboutaha, Assistant Professor of Civil Engineering
- 1995 B.C.E. Georgia Institute of Technology (Civil Engineering), Atlanta, Georgia
With Highest Honor

PROFESSIONAL APPOINTMENTS

- Sept. 2015 – present Associate Professor and Stirrat Faculty Scholar, Civil Engineering, Missouri S&T
- June 2018 – Jul. 2018 Visiting Fellow, Institute of Advanced Studies, University of Bologna, Italy
- Jun. 2017 – Jul. 2017 Visiting Professor, University of Bologna, Italy (Hosted by Prof. Christian Carloni)
- Apr. 2016 – Jun. 2016 Visiting Professor, University of Bologna, Italy (Hosted by Prof. Christian Carloni)
- Jan. 2016 – Mar. 2016 Visiting Professor, University of Padua, Italy (Hosted by Prof. Carlo Pellegrino)
- Sept. 2014 – present Associate Professor, Civil Engineering, Missouri S&T
- Aug. 2008 – Aug. 2014 Assistant Professor, Civil Engineering, Missouri S&T
- Aug. 2004 – Dec. 2007 Graduate Research Assistant, Purdue University
- Apr. 2002 – Oct. 2004 Staff Engineer, American Concrete Institute (ACI)
- Apr. 1997 – Mar. 2002 Structural Engineer, Project Engineer, Project Manager, Walter P. Moore & Associates
- Mar. 1996 – Mar. 1997 Graduate Research Assistant, Georgia Institute of Technology
- Sep. 1995 – Oct. 1996 Graduate Teaching Assistant, Georgia Institute of Technology
- May 1995 – Aug. 1995 Structural Engineer Intern, Wiss, Janney, Elstner, Associates
- Jun. 1994 – Sep. 1994 Undergraduate Research Assistant, Georgia Institute of Technology

HONORS AND AWARDS

- 2018 University of Bologna Institute of Advanced Studies Visiting Fellowship
- 2018 2018 Purdue University Civil Engineering Student Advisory Council (CEGSAC)
 Emerging Leaders Lecture Awardee
- 2017 – 2018 Precast/Prestressed Concrete Institute (PCI) Daniel P. Jenny Research Fellowship
- 2017 Outstanding Reviewer: Composite Structures; Engineering Structures; Composites Part
 B; Construction and Building Materials
- 2016 Missouri S&T Faculty Excellence Award
- 2016 International Journal of Concrete Structures and Materials 2015 Best Paper of the Year
 Award
- 2016 American Concrete Institute Fellow
- 2016 Missouri S&T Global Learning Outstanding Teaching Commendation Award
- 2015 – 2020 Missouri S&T Inaugural Stirrat Faculty Scholar Award
- 2015 American Society of Nondestructive Testing (ASNT) Fellowship Award
- 2015 Missouri S&T Global Learning Outstanding Teaching Commendation Award
- 2015 Missouri S&T Joseph H. Senne, Jr. Academy of Civil Engineers Faculty Achievement
 Award
- 2014 – 2015 Erasmus Mundus International Fellow, “SAHC Masters in Structural Analysis of
 Monuments and Historical Constructions”

2011 – 2012	Precast/Prestressed Concrete Institute (PCI) Daniel P. Jenny Research Fellowship
2010	Missouri S&T Outstanding Teaching Award 2009-2010
2010	MSM-UMR Alumni Association Class of 1942 Excellence in Teaching Award
2011, 2010, 2009	Eta Kappa Chapter of Chi Omega Outstanding Professor Award
2009	ASCE ExCEED Fellow
2005	Portland Cement Association Education Foundation Research Fellowship
Aug. 2004 – Aug. 2006	Purdue University Frederick N. Andrews Fellowship
Sep. 1996 – Mar. 1997	Georgia Regents' Opportunity Fellowship
Sep. 1995 – Sep. 1996	Georgia Institute of Technology President's Fellowship

PROFESSIONAL REGISTRATIONS

Professional Engineer	Missouri P.E. License No. 2012031489, since September 7, 2012
	Georgia P.E. License No. 026290, since July 7, 2000

SCHOLARLY RESEARCH ACTIVITIES

RESEARCH INTERESTS

- Reinforced and prestressed concrete structural members and systems
- Structural models and experimental methods
- Innovative methods of repair and strengthening of structures subjected to seismic loading or other extreme hazards
- Evaluation of existing structures
- Design codes for structural concrete

SCHOLARLY PUBLICATIONS AND PRESENTATIONS

**denotes corresponding author; ¹denotes graduate student under my direct supervision; ²denotes visiting faculty scholar, underline indicates presenter*

PEER REVIEWED JOURNAL PUBLICATIONS (62 published, 1 accepted/in press, 6 in review)

- Alabdulhady, M.^{*1}, and **Sneed, L.H.**, 2019. "Torsional Strengthening of Reinforced Concrete Beams with Externally Bonded Composites: A State of the Art Review." *Construction and Building Materials*, V. 205, pp. 148-163. (DOI: 10.1016/j.conbuildmat.2019.01.163)
- Alabdulhady, M.^{*1}, Aljabery, K., and **Sneed, L.H.**, 2019. "Analytical Study on the Torsional Behavior of Reinforced Concrete Beams Strengthened with FRCM Composite." *Journal of Composite for Construction*, V. 23, No. 2, pp. 04019006-1-04019006-14. (DOI: 10.1061/(ASCE)CC.1943-5614.0000927)
- Faleschini, F.^{*}, Gonzalez-Libreros, J.¹, Hofer, L., Zanini, M., **Sneed, L.H.**, and Pellegrino, C., 2019. "Repair of Severely-Damaged RC Exterior Beam-Column Joints with FRP and FRCM Composites." *Composite Structures*, V. 207, pp. 352-363. (DOI: 10.1016/j.compstruct.2018.09.059)
- Dunkelberg, D.^{*}, **Sneed, L.H.**, Zilch, K., and Reineck, K-H. 2018. "The 2015 ACI-DAfStb Database of Shear Tests on Slender Prestressed Concrete Beams without Stirrups - Overview and Evaluation of Current Design Approaches." *Structural Concrete*, V. 19, No. 6, pp. 1740-1759. (DOI:10.1002/suco.201700216)
- Gonzalez-Libreros, J.H.¹, Sabau, C., **Sneed, L.H.**^{*}, Sas, G., and Pellegrino, C. 2018. "Confinement of Concrete Elements with FRCM Composites: What Do We Know So Far?" *The 13th International Symposium on Fiber-Reinforced polymer Reinforcement for Concrete Structures*, SP-327, American Concrete Institute, Farmington Hills, MI, pp. 19.1-19.20.
- Sneed, L.H.**^{*}, Carloni, C.², Fraioli, G.¹ and Baietti, G.¹, 2018. "Confinement of Brick Masonry Columns with SRG Jackets." *Composites with Inorganic Matrix for Repair of Concrete and Masonry Structures*, SP-324, American Concrete Institute, Farmington Hills, MI, pp. 5.1-5.10.
- Carloni, C.², Santandrea, M., Imohamed, I.A.O., and **Sneed, L.H.**^{*}, 2018. "Confinement of Concrete Columns with SRG." *Composites with Inorganic Matrix for Repair of Concrete and Masonry Structures*, SP-324, American Concrete Institute, Farmington Hills, MI, pp. 8.1-8.12.
- D'Antino, T.^{*1}, Colombi, P., Carloni, C.², and **Sneed, L.H.**, 2018. "Estimation of a Matrix-Fiber Interface Cohesive Material Law in FRCM-Concrete Joints." *Composite Structures*, V. 193, pp. 103-112. (DOI: 10.1016/j.compstruct.2018.03.005)

54. Alabdulhady M.¹, and **Sneed, L.H.**, 2018. "A Study of the Effect of Fiber Orientation on the Torsional Behavior of RC Beams Strengthened with PBO-FRCM Composite." *Construction and Building Materials*, V. 166, pp. 839-854. (DOI: 10.1016/j.conbuildmat.2018.02.004)
53. Carloni, C.^{*2}, D'Antino, T.¹, **Sneed, L.H.**, and Pellegrino, C., 2018. "3-D Numerical Modeling of Single-Lap Direct Shear Tests of FRCM-Concrete Joints Using a Cohesive Contact Damage Approach." *Journal of Composites for Construction*, V. 22, N. 1, pp. 04017048-1 - 04017048-10. (DOI: 10.1061/(ASCE)CC.1943-5614.0000827)
52. Yang, Y.¹, He, R.¹, **Sneed, L.H.**^{*}, 2017. "Seismic Repair Design of RC Bridge Columns Damaged Under Combined Bending and Torsion Effects." *International Journal of Bridge Engineering*, Special Issue, pp. 171-189.
51. Gonzalez-Libreros, J.H.^{*1}, **Sneed, L.H.**, D'Antino, T.¹, and Pellegrino, C., 2017. "Behavior of RC Beams Strengthened in Shear with FRP and FRCM Composites." *Engineering Structures*, V. 150, pp. 830-842. (DOI: 10.1016/j.engstruct.2017.07.084)
50. Alabdulhady M.¹, **Sneed, L.H.**^{*}, Abdelkarim, O.I., and Elgawady, M., 2017. "Finite Element Study on the Behavior of RC Beams Strengthened with PBO-FRCM Composite Under Torsion." *Composite Structures*, V. 179, pp. 326-339. (DOI: 10.1016/j.compstruct.2017.07.079)
49. **Sneed, L.H.**^{*}, Ravazdezh, F., Santandrea, M., Imohamed, I.A.O., and Carloni, C.², 2017. "A Study of the Compressive Behavior of Concrete Columns Confined with Steel-FRP Jackets using Digital Image Analysis." *Composite Structures*, V. 179, pp. 195-207. (DOI: 10.1016/j.compstruct.2017.07.047)
48. **Sneed, L.H.**^{*}, Carloni, C.², Baietti, G.¹, and Fraioli, G.¹, 2017. "Confinement of Clay Masonry Columns with SRG." *Key Engineering Materials*, V. 747, pp. 350-357. (DOI:10.4028/www.scientific.net/KEM.747.350)
47. Varnavina, A.^{*}, **Sneed, L.**, Khamzin, A., Torgashov, E., Anderson, N., 2017. "An Attempt to Describe a Relationship Between Concrete Deterioration Quantities and Bridge Deck Condition Assessment Techniques." *Journal of Applied Geophysics*, V. 142, pp. 38-48. (DOI: 10.1016/j.jappgeo.2017.05.009)
46. Gonzalez-Libreros, J.H.¹, Sabau, C., **Sneed, L.H.**^{*}, Pellegrino, C., and Sas, G., 2017. "State of Research on Shear Strengthening of RC Beams Using FRCM Composites." *Construction and Building Materials*, V. 149, pp. 444-458. (DOI: 10.1016/j.conbuildmat.2017.05.128)
45. Focacci, F., Carloni, C.^{*2}, D'Antino, T.¹, **Sneed, L.H.**, and Pellegrino, C., 2017. "An Indirect Method to Calibrate the Interfacial Cohesive Material Law for FRCM-Concrete Joints." *Materials and Design*, Vol. 128, pp. 206-217. (DOI: 10.1016/j.matdes.2017.04.038)
44. Sabau, C.^{*}, Gonzalez-Libreros, J.H.¹, **Sneed, L.H.**, Pellegrino, C., and Sas, G., 2017. "Use of Image Correlation System to Study the Bond Behavior of FRCM-Concrete Joints." *Materials and Structures*, Vol. 50, No. 3 (DOI: 10.1617/s11527-017-1036-4)
43. Khamzin, A.^{*}, Varnavina, A., Torgashov, E., Anderson, N., and **Sneed, L.H.**, 2017, "Utilization of Air-Launched Ground Penetrating Radar (GPR) for Pavement Condition Assessment." *Construction and Building Materials*, Vol 141, pp. 130-139. (DOI: 10.1016/j.conbuildmat.2017.02.105)
42. Alabdulhady M.¹, **Sneed, L.H.**^{*}, Carloni, C.², 2017. "Torsional Behavior of RC Beams Strengthened with PBO-FRCM Composite – An Experimental Study." *Engineering Structures*, Vol. 136, pp. 393-405. (DOI: 10.1016/j.engstruct.2017.01.044)
41. Carloni, C.², Verre, S.¹, **Sneed, L.H.**^{*}, and Ombres, L., 2017. "Loading Rate Effect on the Debonding Phenomenon in Fiber Reinforced Cementitious Matrix-Concrete Joints." *Composites Part B*, Vol. 108, pp. 301-314. (DOI: 10.1016/j.compositesb.2016.09.087)
40. Li, M.^{*}, Anderson, N., and **Sneed, L.H.**, Kang, X., 2016. "An Assessment of Concrete Over Asphalt Pavement Using Both the Ultrasonic Surface Wave and Impact Echo Techniques." *Journal of Environmental and Engineering Geophysics*, Vol. 21, No. 4, pp. 137-149. (DOI: #10.2113/JEEG21.4.137)
39. Li, M.^{*}, Anderson, N., **Sneed, L.**, and Torgashov, E., 2016. "Condition Assessment of Concrete Pavement Using Both Ground Penetrating Radar and Stress-Wave Based Techniques." *Journal of Applied Geophysics*, Vol. 135, pp. 297-308. (DOI: 10.1016/j.jappgeo.2016.10.022)
38. Krc, K.¹, Wermager, S.¹, **Sneed, L.H.**^{*}, Meinheit, D., 2016. "Examination of the Effective Coefficient of Friction for Shear Friction Design." *PCI Journal*, Vol. 61, No. 6, pp. 44-67.
37. **Sneed, L.H.**^{*}, Verre, S.¹, Carloni, C.², Ombres, L., 2016. "Flexural Behavior of RC Beams Strengthened with Steel-FRCM Composite." *Engineering Structures*, Vol. 127, pp. 686-699. (DOI: 10.1016/j.engstruct.2016.09.006)
36. Qu, H., Li, M., Chen, G.^{*}, **Sneed, L.H.**, Anderson, N.L., 2016. "Multi-Bandwidth Wavelet Transform of Impact Echo Signals for Delamination Detection of Thin Concrete Slabs." *Journal of Civil Structural Health Monitoring*, Vol. 6, No. 4, pp. 649-664. (DOI: 10.1007/s13349-016-0187-2)
35. D'Antino, T.^{*1}, Gonzalez, J.¹, Pellegrino, C., Carloni, C.², **Sneed, L.H.**, 2016. "Experimental Investigation of Glass and Carbon FRCM Composite Materials Applied Onto Concrete Supports." *Applied Mechanics and Materials*, Vol. 847, pp. 60-67. (DOI: 10.4028/www.scientific.net/AMM.847.60)

34. **Sneed, L.H.***, Krc, K.¹, Wermager, S.¹, Meinheit, D., 2016. "Interface Shear Transfer of Lightweight Aggregate Concretes with Different Lightweight Aggregates." *PCI Journal*, V. 61, No. 2, pp. 38-55.
33. D'Antino, T.¹, **Sneed, L.H.***, Carloni, C.², Pellegrino, C., 2016. "Effect of the Inherent Eccentricity in Single-Lap Direct Shear Tests of FRCM-Concrete Joints." *Composite Structures*, Vol. 142, pp. 117-129. (DOI: 10.1016/j.compstruct.2016.01.076)
32. Li, M.*¹, Anderson, N., **Sneed, L.**, Maerz, N., 2016. "Application of Ultrasonic Surface Wave Techniques for Concrete Bridge Deck Condition Assessment." *Journal of Applied Geophysics*, Vol. 126, pp. 148-157. (DOI: 10.1016/j.jappgeo.2016.01.020)
31. He, R.¹, Yang, Y.*¹, **Sneed, L.H.**, 2016. "Post-Repair Seismic Assessment of RC Bridges Damaged with Fractured Column Bars – A Numerical Approach." *Engineering Structures*, V. 112, pp. 100-113. (DOI: 10.1016/j.engstruct.2016.01.007)
30. Mohamed, M., Hussein, R., Abutunis, A., Huo, Z., Chandrashekhara, K.*¹, **Sneed, L.H.**, 2016. "Manufacturing and Evaluation of Polyurethane Composite Structural Insulated Panels." *Journal of Sandwich Structures and Materials*, 21 pp. (DOI: 10.1177/1099636215626597)
29. Fakharifar, M., Dalvand, A., Sharbatdar, M., Chen, G.*¹, **Sneed, L.H.**, 2016. "Innovative Hybrid Reinforcement Constituting Conventional Longitudinal Steel and FRP Stirrups for Improved Seismic Strength and Ductility of RC Structures." *Frontiers of Structural and Civil Engineering*, V. 10, No. 1, pp. 44-62. (DOI: 10.1007/s11709-015-0295-9)
28. D'Antino, T.*¹, **Sneed, L.H.**, Carloni, C.², Pellegrino, C., 2015. "Influence of the Substrate Characteristics on the Bond Behavior of FRCM-Concrete Joints." *Construction and Building Materials*, V. 101, Part 1, pp. 838-850. (DOI: 10.1016/j.conbuildmat.2015.10.045)
27. **Sneed, L.H.***, D'Antino, T.¹, Carloni, C.², Pellegrino, C., 2015. "A Comparison of the Bond Behavior of PBO-FRCM Composites Determined by Double-Lap and Single-Lap Shear Tests." *Cement and Concrete Composites*, V. 64, pp. 37-48. (DOI: 10.1016/j.cemconcomp.2015.07.007)
26. Varnavina, A.*¹, Khamzin, A., **Sneed, L.**, Torgashov, E., Anderson, N., Maerz, N.H., Boyko, K., 2015. "Concrete Bridge Deck Assessment: Relationship Between GPR Data and Concrete Removal Depth Measurements Collected After Hydrodemolition." *Construction and Building Materials*, V. 99, pp. 26-738. (DOI: 10.1016/j.conbuildmat.2015.09.008)
25. Yang, Y.¹, **Sneed, L.H.***, Saiidi, M.S., Belarbi, A., Ehsani, M., He, R.,¹ 2015. "Emergency Repair of an RC Bridge Column with Fractured Bars Using Externally Bonded Prefabricated Thin CFRP Laminates – CFRP Strips." *Composite Structures*, V. 133, pp. 727-738. (DOI: 10.1016/j.compstruct.2015.07.045)
24. D'Antino, T.¹, Carloni, C.*², **Sneed, L.H.**, Pellegrino, C., 2015. "Fatigue and Post-fatigue Behavior of PBO FRCM-Concrete Joints." *International Journal of Fatigue*, V. 81, pp. 91-104. (DOI: 10.1016/j.ijfatigue.2015.06.008)
23. He, R.¹, Yang, Y.¹, **Sneed, L.H.***, 2015. "Seismic Repair of Reinforced Concrete Bridge Columns: A Review of Research Findings." *Journal of Bridge Engineering*, ASCE, V. 20, No. 12, 13 pages. (DOI: 10.1061/(ASCE)BE.1943-5592.0000760)
22. Ren, W.*², **Sneed, L.H.**, Gai, Y., Kang, X., 2015. "Test Results and Nonlinear Analysis of RC T-Beams Strengthened by Bonded Steel Plates." *International Journal of Concrete Structures and Materials*, V. 9, No. 2, pp. 133-143. (DOI: 10.1007/s40069-015-0098-3)
21. Fakharifar, M.*¹, Chen, G., **Sneed, L.H.**, Dalvand, A., 2015. "Seismic Performance of Post-Mainshock FRP/Steel Repaired RC Bridge Piers Subjected to Aftershocks." *Composites Part B*, V. 72, pp. 183-198. (DOI: 10.1016/j.compositesb.2014.12.010)
20. Varnavina, A., Khamzin, A., Torgashov, E., **Sneed, L.**, Goodwin, B.¹, Anderson, N., 2015. "Data Acquisition and Processing Parameters for Concrete Bridge Deck Condition Assessment Using Ground-Coupled Ground Penetrating Radar: Some Considerations." *Journal of Applied Geophysics*, V. 114, pp. 123-133. (DOI: 10.1016/j.jappgeo.2015.01.011)
19. Yang, Y.¹, **Sneed, L.H.***, Morgan, A.¹, Saiidi, M.S., Belarbi, A., 2015. "Repair of RC Bridge Columns with Interlocking Spirals and Fractured Longitudinal Bars – An Experimental Study." *Construction and Building Materials*, V. 78, pp. 405-420. (DOI: 10.1016/j.conbuildmat.2015.01.010)
18. D'Antino, T.*¹, Pellegrino, C., Carloni, C.², **Sneed, L.H.**, Giacomini, G., 2015. "Experimental Analysis of the Bond Behavior of Glass, Carbon, and Steel FRCM Composites." *Key Engineering Materials*, V. 624, pp. 371-378. (DOI:10.4028/www.scientific.net/KEM.624.371)
17. Ren, W.*², **Sneed, L.H.**, Yang Y.¹, He, R.¹, 2015. "Numerical Simulation of Prestressed Precast Concrete Bridge Deck Panels Using Damage Plasticity Model." *International Journal of Concrete Structures and Materials*, V. 9, No. 1, pp. 45-54. (DOI: 10.1007/s40069-014-0091-2)

16. Carloni, C.*², D'Antino, T.¹, **Sneed, L.H.**, Pellegrino, C., 2015. "Role of the Matrix Layers in the Stress-Transfer Mechanism of FRCM Composites Bonded to a Concrete Substrate." *Journal of Engineering Mechanics*. V. 141, No. 6. (DOI: 10.1061/(ASCE)EM.1943-7889.0000883)
15. **Sneed, L.H.***, D'Antino, T.¹, Carloni, C.², 2014. "Experimental Investigation of FRCM-Concrete Interfacial Debonding." *Advanced Materials and Sensors Towards Smart Concrete Bridges: Concept, Performance, Evaluation, and Repair*, SP-298, American Concrete Institute, Farmington Hills, MI, pp. 1-14.
14. Shaw, D.¹ **Sneed, L.H.***, 2014. "Interface Shear Transfer of Lightweight Aggregate Concretes Cast at Different Times." *PCI Journal*, Chicago, IL, V. 59, No. 3, pp. 130-144.
13. **Sneed, L.H.***, D'Antino, T.¹, Carloni, C.², 2014. "Investigation of Bond Behavior of PBO Fiber-Reinforced Cementitious Matrix-Composite Concrete Interface." *ACI Materials Journal*, V. 111, No. 5, pp. 569-580. (DOI:10.14359.51686604)
12. He, R.¹, **Sneed, L.H.***, Belarbi, A., 2014. "Torsional Repair of Severely Damaged Column Using Carbon Fiber-Reinforced Polymer." *ACI Structural Journal*, V. 111, No. 3, pp. 705-716. (DOI:10.14359.51686627)
11. D'Antino, T.¹, Carloni, C.*², **Sneed, L.H.**, Pellegrino, C., 2014. "Matrix-Fiber Bond Behavior in PBO FRCM Composites – A Fracture Mechanics Approach." *Engineering Fracture Mechanics Journal*, V. 117, p. 94-111. (DOI: 10.1016/j.engfracmech.2014.01.011)
10. **Sneed, L.H.***, Ramirez, J.A., 2014. "Influence of Cracking on the Behavior and Shear Strength of RC Beams." *ACI Structural Journal*, V. 111, No. 1, pp. 157-166. (DOI: 10.14359/51686438)
9. He, R.¹, Grelle, S.¹, **Sneed, L.H.***, Belarbi, A., 2013. "Rapid Repair of a Severely Damaged RC Column Having Fractured Bars Using Externally Bonded CFRP," *Journal of Composite Structures*, V. 101, pp. 225-242. (DOI: 10.1016/j.compstruct.2013.02.012)
8. Grelle, S.V.¹, **Sneed, L.H.***, 2013. "Review of Anchorage Systems for Externally-Bonded FRP Laminates," *International Journal of Concrete Structures and Materials*, V. 7, No. 1, pp. 17-33. (DOI: 10.1007/s40069-013-0029-0)
7. He, R.¹, **Sneed, L.H.***, Belarbi, A., 2013. "Rapid Repair of Severely Damaged RC Columns with Different Damage Conditions – An Experimental Study," *International Journal of Concrete Structures and Materials*, V. 7, No. 1, pp. 35-50. (DOI: 10.1007/s40069-013-0030-7)
6. Grace, C.¹, Yang, Y.¹, **Sneed, L.H.***, 2012, "Fracture Mechanics Approaches to Predicting the Behavior of Reinforced Concrete Members with Externally-bonded Fiber Reinforced Polymer Laminates," *A Fracture Approach for FRP-Concrete Structures*, SP-286, American Concrete Institute, Farmington Hills, MI, pp. 7-1 to 7-20. (DOI: 10.14359/51683907)
5. Spraggs, K.¹, **Sneed, L.***, Belarbi, A., Anderson, N., 2012. "Field Investigation of Spalling in Partial-Depth Precast Concrete Bridge Decks Using NDT." *PCI Journal*, Chicago, IL, V. 57, No. 2, pp. 80-93.
4. You, Y-M., **Sneed, L.H.***, Belarbi, A., 2012. "Numerical Simulation of Partial-Depth Precast Concrete Bridge Deck Spalling," *Journal of Bridge Engineering*, ASCE, V.17, N.3, pp. 528-536. (DOI: 10.1061/(ASCE)BE.1943-5592.0000254)
3. **Sneed, L.H.*** and Ramirez, J.A., 2011. Author's Closure to Discussion by A. Windisch of the Paper "Influence of Effective Depth on the Shear Strength of Concrete Beams – Experimental Study," *ACI Structural Journal*, V. 108, No. 4, pp. 509. (DOI: 10.14359/51682992)
2. **Sneed, L.H.*** and Ramirez, J.A., 2010. "Influence of Effective Depth on the Shear Strength of Concrete Beams – Experimental Study," *ACI Structural Journal*, V. 107, No. 5, pp. 554-562. (DOI: 10.14359/51663906)
1. **Sneed, L.H.*** and Ramirez, J.A., 2009. "Evaluation of Minimum Shear Reinforcement Requirements in Nonprestressed Beams Without Distributed Horizontal Reinforcement," *Thomas T.C. Hsu Symposium on Shear and Torsion in Concrete Structures*, SP-265, American Concrete Institute, Farmington Hills, MI, pp. 405-426. (DOI: 10.14359/51663306)

PEER REVIEWED CONFERENCE PUBLICATIONS (21 published, 1 accepted/in press, 1 in review)

21. Zou, X.¹, **Sneed, L.H.***, D'Antino, T.¹, Carloni, C.², 2018. "Application of a Trilinear Bond-Slip Model to FRCM-Concrete Joints." In 9th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2018), Paris, France, Part 1 pp. 314-321.
20. **Sneed, L.H.***, D'Antino, T.¹, Carloni, C.², and Pellegrino, C., 2018. "Study of the Matrix-Fiber Bond Behavior of Carbon and Glass FRCM Composites." In 9th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2018), Paris, France, Part 1 pp. 330-337.
19. D'Antino, T.*¹, **Sneed, L.H.**, Carloni, C.², and Pellegrino, C., 2018. "Numerical Analysis of PBO FRCM-Concrete Joints." In 9th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2018), Paris, France, Part 1 pp. 338-343.

18. Aiello, M.A.*, Sneed, L.H., 2018. "Confinement of Existing RC and Masonry Columns with FRCM Composites: ACI-RILEM Provisions." In 9th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2018), Paris, France, Part 2 pp. 106-113.
17. D'Antino, T.¹, Gonzalez-Libreros, J.H.*¹, Pellegrino, C., Carloni, C.2, and Sneed, L.H., 2018. "Performance of Different Types of FRCM Composite Applied to Concrete Substrate." In SHCC: International Conference on Strain-Hardening Cement-Based Composites (SHCC4), Dresden, Germany, pp. 778-786. (DOI: 10.1007/978-94-024-1194-2_89)
16. Gonzalez-Libreros, J.H.*¹, Sabau, C., Sneed, L.H., Sas, G., and Pellegrino, C., 2018. "Effect of Confinement with FRCM Composites on Damaged Concrete Elements." In SHCC: International Conference on Strain-Hardening Cement-Based Composites (SHCC4), Dresden, Germany, pp. 770-777. (DOI: 10.1007/978-94-024-1194-2_88)
15. Carloni, C.*², Santandrea, M., Ravazdezh, F., and Sneed, L., 2017. "Stress-Strain Response of Steel-FRP Confined Concrete Columns Determined by DIC." In SMAR 2017 – Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zurich, Switzerland, 8 pp.
14. Faleschini, F., Gonzalez-Libreros, J.H.*¹, Hofer, L., Sneed, L.H., and Pellegrino, C., 2017. "Experimental Behavior of a Severely Damaged RC Beam-Column Joint Strengthened with FRCM Composites." In SMAR 2017 – Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zurich, Switzerland, 8 pp.
13. Gonzalez-Libreros, J.H.*¹, D'Antino, T.¹, Sneed, L.H., Pellegrino, C., and Giacomini, G., 2017. "Transversal Reinforcement Interaction in RC Beams Strengthened in Shear with Externally Bonded Composites." In SMAR 2017 – Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, Zurich, Switzerland, 8 pp.
12. Gonzalez-Libreros, J.H.*¹, Pellegrino, C., D'Antino, T.¹, and Sneed, L.H., 2017. "Evaluation of External Transversal Reinforcement Strains of RC Beams Strengthened in Shear with FRCM Composites." In Advanced Composites in Construction (ACIC) 2017, University of Sheffield, UK, 6 pp.
11. Gonzalez-Libreros, J.H.*¹, Sabau, C., Sneed, L.H., Pellegrino, C., and Sas, G., 2016. "Experimental Investigation of RC Beams Strengthened in Shear with Externally Bonded Composites." In 8th International Conference on Fibre Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016), Hong Kong, China, 6 pp.
10. Sabau, C., Gonzalez-Libreros, J.H.*¹, Sneed, L.H., Pellegrino, C., and Sas, G., 2016. "Influence of the Fiber Type on the Bonding of FRCM Strips Applied on Concrete Substrates." In 8th International Conference on Fibre Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016), Hong Kong, China, 6 pp.
9. Gonzalez-Libreros, J.H.*¹, Sabau, C., Sneed, L.H., Pellegrino, C., and Sas, G., 2016. "Shear Strengthening of RC Beams Using FRCM Composites – What Do We Know So Far?" In 8th International Conference on Fibre Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016), Hong Kong, China, 6 pp.
8. Carloni, C.*², D'Antino, T.¹, Sneed, L.H., Pellegrino, C., 2015. "An Investigation of PBO FRCM-Concrete Joint Behavior using a Three-Dimensional Numerical Approach." In *Proceedings of the Fifteenth International Conference on Civil, Structural and Environmental Engineering Computing (CC2015)*, J. Kruijs, Y. Tsompanakis, B.H.V. Topping, (Editors), Prague, Czech Republic, 15 pp. (DOI 10.4203/ccp.108.113)
7. Shaw, D.¹, Sneed, L.H.*, 2013. "Influence of Unit Weight on the Shear Transfer of Concretes Cast at Different Times," *2013 PCI Convention/National Bridge Conference Proceedings*, Dallas, TX, 19 pp.
6. D'Antino, T.*¹, Carloni, C.², Sneed, L.H., Pellegrino, C., 2013. "Fiber-Matrix Interaction in PBO FRCM Composites," *Anidis 2013 - L'ingegneria Sismica in Italia (Anidis 2013 - Earthquake Engineering in Italy)*, Padua, Italy, 8 pp.
5. D'Antino, T.¹, Sneed, L.H., Carloni, C.*², Pellegrino, C., 2013. "Bond Behavior of the FRCM-Concrete Interface," *FRPRCS11, 11th International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures*, Guimarães, Portugal, 10 pp.
4. Carloni, C.*², Sneed, L.H., D'Antino, T.¹, 2013. "Interfacial Bond Characteristics of Fiber Reinforced Concrete Mortar for External Strengthening of Reinforced Concrete Members," *FraMCos-8, 8th International Conference on Fracture Mechanics of Concrete and Concrete Structures*, Toledo, Spain, 9 pp. (**Keynote presentation**)
3. Yang, Y.¹, Sneed, L.H.*, Belarbi, A., 2012. "Flexural Behavior of Hybrid Precast Prestressed Bridge Deck Panels under Static and Fatigue Loading Conditions – an Experimental Study," *2012 PCI Convention/National Bridge Conference Proceedings*, Nashville, TN, 12 pp.
2. Wieberg, K.*¹, Sneed, L., Belarbi, A., and Anderson, N., 2010. "Spalling of Partial-Depth Precast-Prestressed Bridge Deck Panel Investigation Using GPR," *2010 fib Congress/PCI Convention and Bridge Conference Proceedings*, Washington, D.C., 16 pp.

1. **Sneed, L.H.*** and Ramirez, J.A., 2008. "Size and Scale Effects on the Shear Strength of Concrete Beams," Proceedings, ASCE Structures Congress 2008: Crossing Borders, ASCE, Vancouver, BC, 2 pp.

NON-PEER REVIEWED CONFERENCE PUBLICATIONS (14 published, 0 accepted/in press, 0 in review)

14. **Elkrry, A.**, Torgashov, E., Nwokebuihe, S.*, Dera, A., Alotaibi, A., **Sneed, L.**, Anderson, N., 2016, "Non-Invasive Imaging and Assessment of Pavements." In *29th Annual Symposium on the Application of Geophysics for Engineering and Environmental Problems (SAGEEP)*, The Environmental and Engineering Geophysical Society, Denver, CO, CDROM no pp.
13. **Varnavina, A.***, Khamzin, A., Torgashov, E., Abhishek, K., **Sneed, L.**, Anderson, N., 2015, "Bridge Deck Deterioration: GPR vs. Hydro Demolition." In *EEGS SAGEEP 2015 (Environmental and Engineering Geophysical Society, The Symposium on the Application of Geophysics to Engineering and Environmental Problems)*. Austin, TX. CDROM no pp.
12. **Li, M.***, Anderson, N., **Sneed, L.**, Torgashov, E., 2015, "In-situ Assessment of Concrete Bridge Deck Using Ultrasonic Acoustic Methods." In *EEGS SAGEEP 2015 (Environmental and Engineering Geophysical Society, The Symposium on the Application of Geophysics to Engineering and Environmental Problems)*. Austin, TX. CDROM no pp.
11. **Khamzin, A.***, Varnavina, A., Torgashov, E., Abhishek, K., **Sneed, L.**, Anderson, N., 2015, "Comparison of a Ground-Coupled and an Air-Launched Ground Penetrating Radar System for the Bridge Deck Evaluation." In *EEGS SAGEEP 2015 (Environmental and Engineering Geophysical Society, The Symposium on the Application of Geophysics to Engineering and Environmental Problems)*. Austin, TX. CDROM no pp.
10. **Torgashov, E.***, Khamzin, A., Li, M., Varnavina, A., Nwokebuihe, S., **Sneed, L.**, Anderson, N., 2015, "Evaluation of Rigid Pavements Using Ground Penetrating Radar." In *EEGS SAGEEP 2015 (Environmental and Engineering Geophysical Society, The Symposium on the Application of Geophysics to Engineering and Environmental Problems)*. Austin, TX. CDROM no pp.
9. **Khamzin, A.***, Varnavina, A., Torgashov, E., Goodwin, B.¹, **Sneed, L.**, Anderson, N., 2014, "Adaptive Approach for Utilization of Ground Penetrating Radar for Bridge Deck Investigations." In *EEGS SAGEEP 27 (Environmental and Engineering Geophysical Society, The Symposium on the Application of Geophysics to Engineering and Environmental Problems)*. Boston, MA. CDROM no pp.
8. **Elkrry, A.***, Torgashov, E., Dera, A., Li, M., Khamzin, A., Varnavina, A., Goodwin, B.¹, Luna, R., **Sneed, L.**, Anderson, N., 2014 "Utility and Cost Effectiveness of Using a Combination of Geophysical Techniques to Solve Highway Related Problems." In *EEGS SAGEEP 27 (Environmental and Engineering Geophysical Society, The Symposium on the Application of Geophysics to Engineering and Environmental Problems)*. Boston, MA. CDROM no pp.
7. **Varnavina, A.***, Khamzin, A., Torgashov, E., Goodwin, B.¹, **Sneed, L.**, Anderson, N., 2014, "Non-destructive Evaluation of Bridge Decks Using Ground Penetrating Radar." In *EEGS SAGEEP 27 (Environmental and Engineering Geophysical Society, The Symposium on the Application of Geophysics to Engineering and Environmental Problems)*. Boston, MA. CDROM no pp.
6. **Carloni, C.*²**, D'Antino, T.¹, **Sneed, L.H.**, Pellegrino, C., 2013, "A Study of the Debonding of FRCM Composites From Concrete." In *2013 Conference of the ASCE Engineering Mechanics Institute Conference, American Society of Civil Engineers, Evanston, IL*, CDROM no pp.
5. **Goodwin, B.¹**, Torgashov, E.*, Li, M., Khamzin, A., Varnavina, A., **Sneed, L.**, Anderson, N., 2013, "Bridge Deck Core Control." In *26th Annual Symposium on the Application of Geophysics for Engineering and Environmental Problems (SAGEEP)*, The Environmental and Engineering Geophysical Society, Denver, CO, CDROM no pp.
4. **Li, M.**, Torgashov, E.*, Varnavina, A., Khamzin, A., Goodwin, B.¹, **Sneed, L.**, Anderson, N., 2013, "Ultra-Sonic Surface Wave Investigations." In *26th Annual Symposium on the Application of Geophysics for Engineering and Environmental Problems (SAGEEP)*, The Environmental and Engineering Geophysical Society, Denver, CO, CDROM no pp.
3. **Varnavina, A.**, Torgashov, E.*, Khamzin, A., Li, M., Goodwin, B.¹, Elkrry, A., Dera, A., **Sneed, L.**, Anderson, N., 2013, "Bridge Deck Investigations." In *26th Annual Symposium on the Application of Geophysics for Engineering and Environmental Problems (SAGEEP)*, The Environmental and Engineering Geophysical Society, Denver, CO, CDROM no pp.
2. **Elkrry, A.**, Torgashov, E.*, Dera, A., Li, M., Khamzin, A., Varnavina, A., Goodwin, B.¹, **Sneed, L.**, Anderson, N., 2013, "Pavement Investigations." In *26th Annual Symposium on the Application of Geophysics for Engineering and Environmental Problems (SAGEEP)*, The Environmental and Engineering Geophysical Society, Denver, CO, CDROM no pp.

1. Grelle, S.^{*1}, and **Sneed, L.**, 2011, “An Evaluation of Anchorage Systems For Fiber-Reinforced Polymer (FRP) Laminates Bonded to Reinforced Concrete Elements.” Proceedings, ASCE Structural Congress: 2011, ASCE, Las Vegas, NV, 12 pp. (DOI: 10.1061/41171(401)103)

POSTER PRESENTATIONS (2 presented)

2. Carloni, C.^{2*}, Imohamed, I., Santandrea, M., Ravazhezh, F., **Sneed, L.H.** October 24, 2016, ACI Fall 2016 Convention, Philadelphia, PA, “Confinement of Concrete Columns with Steel-FRP Composite.”
1. Varnavina, A.^{*}, Khamzin, A., Torgashov, E., Goodwin, B., **Sneed, L.**, Anderson, N. “Non-destructive Evaluation of Bridge Deck Using Ground Penetrating Radar.” 27th Annual Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP), Boston, MA, March, 2014.

OTHER ORAL PRESENTATIONS (60 presented, 1 scheduled)

60. **Sneed, L.H.**^{*}, D’Antino, T.¹, Gonzalez-Libreros, J.¹, and Pellegrino, C., October 14, 2018, ACI Fall 2018 Convention, Las Vegas, NV, “Contribution of Externally Bonded FRCM to the Shear Strength of RC Beams – A Mechanical Model.” (*Invited*)
59. **Sneed, L.H.**^{*}, July 10, 2018, Politecnico di Milano, Milan, Italy, “Repair of Earthquake-Damaged Reinforced Concrete Bridges – Challenges and Solutions.” (*Invited*)
58. **Sneed, L.H.**^{*}, July 3, 2018, University of Bologna, Bologna, Italy, “Repair of Earthquake-Damaged Reinforced Concrete Bridges – Challenges and Solutions.” (*Invited*)
57. **Sneed, L.H.**^{*}, February 16, 2018, Purdue University, West Lafayette, IN, “Navigating the Road to a Successful Academic Career.” (*Invited*)
56. Foudazi, A.^{*}, Edwards, C., **Sneed, L.**, and Donnell, K.M., October 30, 2017, ASNT Annual Conference 2017, Nashville, TN, “Active Microwave Thermography (AMT) for Nondestructive Evaluation of FRP-Strengthened Structures.” (*Invited*)
55. **Sneed, L.H.**^{*}, June 5, 2017, University of Bologna, Bologna, Italy, “Fiber Reinforced Composites: A Tool to Improve the Compressive and Seismic Response of Columns.” (*Invited*)
54. Carloni, C.^{*2}, Santandrea, M., Imohamed, I., and **Sneed, L.H.**, March 29, 2017, ACI Spring 2017 Convention, Detroit, MI, “Confinement of Concrete Columns with SRG.” (*Invited*)
53. **Sneed, L.H.**^{*}, Verre, S.1, Carloni, C.2, and Ombres, L., March 29, 2017, ACI Spring 2017 Convention, Detroit, MI, “Flexural Behavior of SRG-Strengthened RC Beams.” (*Invited*)
52. **Sneed, L.H.**^{*}, December 15, 2016, Hong Kong University of Science and Technology, Hong Kong, “FRCM Composites for Structural Strengthening Applications.” (*Invited*)
51. **Sneed, L.H.**^{*}, He, R.¹, Yang, Y.¹, October 27, 2016, ACI Fall 2016 Convention, Philadelphia, PA, “Post-Repair Seismic Assessment of RC Bridges with CFRP-Repaired Columns.” (*Invited*)
50. **Sneed, L.H.**^{*}, October 25, 2016, ACI Fall 2016 Convention, Philadelphia, PA, “Interface Shear Transfer of Lightweight Aggregate Concretes.” (*Invited*)
49. **Sneed, L.H.**^{*}, Carloni, C.², Verre, S.¹, Ombres, L. October 24, 2016, ACI Fall 2016 Convention, Philadelphia, PA, “Flexural Behavior of RC Beams Strengthened and Repaired with Steel-FRP Composite Strips.”
48. **Sneed, L.H.**^{*}, June 1, 2016, Politecnico di Milano, Milan, Italy, “FRCM Composites for Structural Strengthening Applications.” (*Invited*)
47. **Sneed, L.H.**^{*}, Carloni, C.², D’Antino, T.¹, Pellegrino, C., April 17, 2016, ACI Spring 2016 Convention, Milwaukee, Wisconsin, “Study of the Interfacial Debonding of PBO-FRCM-Concrete Systems.”
46. Foudazi, A., Ghasr, M.T., Donnell, K.M.^{*}, **Sneed, L.**, December 4, 2015, Transportation Infrastructure Conference, St. Louis, MO, “Application of Active Microwave Thermography for Inspection of Rehabilitated Cement-Based Structures.”
45. **Sneed, L.H.**^{*}, October 20, 2015, Purdue University, West Lafayette, IN, “FRCM Composites for Structural Strengthening Applications.” (*Invited*)
44. Carloni, C.^{*2}, D’Antino, T.¹, **Sneed, L.H.**, Pellegrino, C., June 16, 2015, ICCS18 – 18th International Conference on Composite Structures, Lisbon, Portugal, “Effect of the Inherent Eccentricity in Single-Lap Direct Shear Tests of FRCM Composites.”
43. **Sneed, L.H.**^{*}, Carloni, C.², D’Antino, T.¹, Pellegrino, C., April 14, 2015, ACI Spring 2015 Convention, Kansas City, Kansas, “A Comparison of the Bond Behavior of PBO-FRCM Composites Determined by Single-Lap and Double-Lap Shear Tests.”
42. **Sneed, L.**^{*}, March 30, 2015, University of Illinois, Urbana-Champaign, Illinois, “Repair of Severely Damaged Reinforced Concrete Bridge Columns.” (*Invited*)

41. **Sneed, L.*** January 16, 2015, University of Padua, Padua, Italy, “Repair of Severely Damaged Reinforced Concrete Bridge Columns.” *(Invited)*
40. **Sneed, L.***, Yang, Y., Saiidi, S., Belarbi, A., Eshani, M. October 28, 2014, ACI Fall 2014 Convention, Washington, D.C., “Repair of RC Bridge Columns with Fractured Bars using Pocketed Externally Bonded Prefabricated Laminates.”
39. **Carloni, C.*²**, **Sneed, L.H.**, D’Antino, T.¹, Pellegrino, C., October 28, 2014, ACI Fall 2014 Convention, Washington, D.C., “Experimental Investigation of FRCM-Concrete Joints Subject to Fatigue and Post-Fatigue Quasi-Static Monotonic Loadings.”
38. **Sneed, L.***, He, R., Yang, Y. October 3, 2014, Transportation Infrastructure Conference, Rolla, MO, “Repair of Severely Damaged Reinforced Concrete Bridge Columns.” *(Invited)*
37. **Sneed, L.H.**, September 9, 2014, PCI Convention/National Bridge Conference 2014, Washington, D.C., “Lightweight Concrete Modification Factor for Shear Friction.” *(Invited)*
36. **Sneed, L.***, Anderson, N., Torgashov, E., Varnavina, A., Khamzin, A., Goodwin, B.¹, May 7, 2014, Missouri S&T Concrete Conference, Rolla, MO, “Non-Destructive Evaluation of Bridge Decks.” *(Invited)*
35. **D’Antino, T.¹**, Pellegrino, C., Carloni, C.², **Sneed, L.H.**, March 13, 2014, COST Action TU1207 - Next Generation Design Guidelines for Composites in Construction, Lyon, France, “Structural and Bond Behavior of Reinforced Concrete Elements Strengthened with FRCM Composites.”
34. **Sneed, L.***, Anderson, N., Torgashov, E., Varnavina, A., Goodwin, B.¹, Khamzin, A., March 13, 2014, 2014 Transportation Engineers Associate of Missouri (TEAM) Conference, St. Louis, MO, “Use of GPR to Estimate Deterioration in Concrete Bridge Decks.” *(Invited)*
33. **Sneed, L.***, Anderson, N., Torgashov, E., Goodwin, B.¹, Khamzin, A., Varnavina, A., January 28, 2014, Missouri Society of Professional Engineers (MSPE), Jefferson City, MO, “An Evaluation of GPR to Determine Bridge Deck Deterioration.” *(Invited)*
32. **Goodwin, B.*¹**, Varnavina, A., Khamzin, A., Torgashov, E., **Sneed, L.**, Anderson, N., November 13, 2013, 2013 Midwest Bridge Preservation Partnership, Indianapolis, IN, “Comparison of Bridge Deck Deterioration Found by NDT Methods and Hydrodemolition.” *(Invited)*
31. **Yang, Y.¹**, **Sneed, L.H.***, Saiidi, M., Belarbi, A., October 22, 2013, ACI Fall 2013 Convention, Phoenix, AZ, “Repair of Earthquake Damaged Bridge Columns with Fractured Bars and Interlocking Spirals.”
30. **Goodwin, B.*¹**, Varnavina, A., Khamzin, A., Torgashov, E., **Sneed, L.**, Anderson, N., October 21, 2013, ACI Fall 2013 Convention, Phoenix, AZ, “Evaluation of GPR to Determine Bridge Deck Deterioration – Case Study Results.”
29. **He, R.*¹**, **Sneed, L.H.**, October 21, 2013, ACI Fall 2013 Convention, Phoenix, AZ, “Response of CFRP-Repaired RC Bridge Columns Containing Buckled and Fractured Reinforcement.”
28. **Sneed, L.***, Anderson, N., Torgashov, E., Goodwin, B.¹, Khamzin, A., Li, M., Varnavina, A., September 13, 2013, Transportation Infrastructure Conference, Jefferson City, MO, “Nondestructive Evaluation of MoDOT Bridge Decks.” *(Invited)*
27. **Anderson, N.***, **Sneed, L.**, Torgashov, E., Varnavina, A., Li, M., Khamzin, A., Goodwin, B.¹, September 13, 2013, Transportation Infrastructure Conference, Jefferson City, MO, “Pavements: Non-invasive Imaging and Assessment.”
26. **He, R.¹**, **Sneed, L.H.***, Belarbi, A., April 16, 2013, ACI Spring 2013 Convention, Minneapolis, MN, “Torsional Repair of a Severely Damaged Column Using CFRP.”
25. **Sneed, L.H.***, D’Antino, T.¹, Carloni, C.², April 15, 2013, ACI Spring 2013 Convention, Minneapolis, MN, “Experimental Investigation of the FRCM-Concrete Interfacial Debonding.”
24. **Shaw, D.¹**, **Sneed, L.H.***, April 15, 2013, ACI Spring 2013 Convention, Minneapolis, MN, “Shear Transfer Across an Interface of Lightweight Concretes Cast at Different Times.”
23. **Yang, Y.¹**, **Sneed, L.H.***, Saiidi, M., Belarbi, A., April 15, 2013, ACI Spring 2013 Convention, Minneapolis, MN, “Repair of Earthquake-damaged Reinforced Concrete Bridge Columns with Interlocking Spirals and Fractured Longitudinal Bars.”
22. **Volz, J.S.***, **Sneed, L.H.**, October 22, 2012, ACI Fall 2012 Convention, Toronto, ON “Getting the Most Out of Your ACI Student Membership – A Student Forum.”
21. **Sneed, L.H.***, October 3, 2012, Geological Engineering Seminar Series, Missouri S&T, Rolla, MO, “Spalling of Partial-Depth Precast-Prestressed Bridge Deck Panel Investigation Using NDE.” *(Invited)*
20. **Shaw, D.¹**, **Sneed, L.H.***, September 30, 2012, PCI Convention/National Bridge Conference 2012, Memphis, TN, “Lightweight Concrete Modification Factor for Shear Friction.”
19. **Sneed, L.H.***, He, R.¹, September 27, 2012, Transportation Infrastructure Conference, Rolla, MO, “Rapid Repair of Severely Damaged Reinforced Concrete Columns.” *(Invited)*

18. **Sneed, L.H.***, He, R.¹, July 12, 2012, NEES Quake Summit 2012, Boston, MA, “Rapid Repair of Severely Damaged RC Columns under Combined Loading with Externally-Bonded CFRP.”
17. **He, R.¹, Sneed, L.H.***, June 6, 2012, Center for Infrastructure Engineering Studies (CIES) Seminar Series, Rolla, MO, “Rapid Repair of Severely Damaged RC Columns under Combined Loading with Externally-Bonded CFRP.” (*Invited*)
16. Grace, C.¹, **Yang, Y.¹, Sneed, L.H.***, March 20, 2012, ACI Spring 2012 Convention, Dallas, TX, “Fracture Mechanics Approach to Predicting the Behavior of Reinforced Concrete Members with Externally-bonded Fiber Reinforced Polymer Laminates: A State-of-the-Art Review.”
15. Podhorsky, N.L.¹ and **Sneed, L.H.***, November 8, 2011, CRSI 2011 Fall Business and Technical Meeting, Chicago, IL, “Evaluation of the Orientation of 90° and 180° Reinforcing Bar Hooks in Wide Members.” (*Invited*)
14. Podhorsky, N.L.¹ and **Sneed, L.H.***, October 16, 2011, ACI Fall 2011 Convention, Cincinnati, OH, “Evaluation of the Orientation of 90° and 180° Reinforcing Bar Hooks in Wide Members.”
13. **Podhorsky, N.L.*¹** and **Sneed, L.H.**, September 15, 2011, Structural Engineers Association of Ohio (SEAoO), Columbus, OH, “Evaluation of the Orientation of 90° and 180° Reinforcing Bar Hooks.” (*Invited*)
12. **He, R.¹, Sneed, L.H.***, and Belarbi, A. April 4, 2011, ACI Spring 2011 Convention, Tampa, FL, “Rapid Repair of Severely-Damaged Columns under Combined Loading with Externally-Bonded CFRP.”
11. **Podhorsky, N.L.¹** and **Sneed, L.H.***, March 24, 2011, CRSI 2011 Spring Business and Technical Meeting, Tempe, AZ, “Evaluation of the Orientation of 90° and 180° Reinforcing Bar Hooks in Wide Members.” (*Invited*)
10. Podhorsky, N.L.¹ and **Sneed, L.H.***, November 7, 2010, CRSI 2010 Fall Business and Technical Meeting, Chicago, IL, “Evaluation of the Orientation of 90° and 180° Reinforcing Bar Hooks in Wide Members.” (*Invited*)
9. **Sneed, L.H.***, Belarbi, A., and **You, Y-M.**, August 27, 2010, Missouri DOT (MoDOT), Jefferson City, MO, “Spalling Solution of Precast Prestressed Bridge Deck Panels.” (*Invited*)
8. **Sneed, L.H.*** and Ramirez, J.A., November 10, 2009, ACI Fall 2009 Convention, New Orleans, Louisiana, “Evaluation of Minimum Shear Reinforcement Requirements in Nonprestressed Beams Without Distributed Horizontal Reinforcement.”
7. **Sneed, L.H.***, October 13, 2009, Chi Epsilon Student Chapter Meeting, Missouri S&T, Rolla, MO. (*Invited*)
6. **Sneed, L.H.***, September 23, 2009, AEI Student Chapter Meeting, Missouri S&T, Rolla, MO. (*Invited*)
5. **Sneed, L.H.***, August 28, 2009, EERI/UNR, University of Nevada, Reno, “Influence of Member Depth on the Shear Strength of Concrete Beams.” (*Invited*)
4. **Sneed, L.H.*** and Ramirez, J.A., April 1, 2008, ACI Spring 2008 Convention, Los Angeles, California, “Accounting for the Size Effect in ACI 318.”
3. **Ramirez, J.A.*** and **Sneed, L.H.**, September 29, 2006, ASOCRETO RC, Cartagena, Colombia, “Efecto de la Escala en la Resistencia a Cortante de Vigas y Losas en una Dirección” (“Effect of Member Depth on the Shear Strength of Beams and One-Way Slabs”).
2. **Sneed, L.H.*** and Ramirez, J.A., September 12, 2006, PCA 2006 Fall Meeting, Chicago, Illinois, Engineered Structures Committee Meeting, “Effect of Member Depth on the Shear Strength of Reinforced Concrete Flexural Members.” (*Invited*)
1. **Sneed, L.H.*** and Ramirez, J.A., September 11, 2006, PCA 2006 Fall Meeting, Chicago, Illinois, PCA Education Foundation Fellowship Session, “Effect of Member Depth on the Shear Strength of Reinforced Concrete Flexural Members.” (*Invited*)

OTHER TECHNICAL PUBLICATIONS AND REPORTS (*16 published, 0 accepted/in press, 1 in review*)

16. Dunkelberg, D.*, **Sneed, L.**, Zilch, K., and Reineck, K.-H., 2017. “ACI-DAfStb Databases 2015 with Shear Tests for Evaluating for the Shear Design of Structural Concrete Members Without and With Stirrups Report on ACI-DAfStb Shear Databases – Part 3 – Database with Shear Tests on Prestressed Concrete Beams without Stirrups Subjected to Point Loads.” Report DAfStb H. 617, K.-H. Reineck and D. Dunkelberg, eds.
15. Dunkelberg, D.*, **Sneed, L.**, Zilch, K., and Reineck, K.-H., 2017. “ACI-DAfStb Databases 2015 with Shear Tests for Evaluating for the Shear Design of Structural Concrete Members Without and With Stirrups Report on ACI-DAfStb Shear Databases – Report Part 5 – Database with Shear Tests on Prestressed Concrete Beams with Vertical Stirrups Subjected to Point Loads.” Report DAfStb H. 617, K.-H. Reineck and D. Dunkelberg, eds.
14. **Sneed, L.H.***, Wermager, S.¹, Krc, K.¹, 2016. “Interface Shear Transfer of Lightweight Aggregate Concretes with Different Lightweight Aggregates – Final Report.” Precast/Prestressed Concrete Institute, Chicago IL, 150 pp.

13. Anderson, N., **Sneed, L.H.***, Rosenblad, B., Luna, R., 2015. “MoDOT Pavement Preservation Research Program. Volume V, Site Specific Pavement Condition Assessment.” Report CMR16-004 v5, Missouri Department of Transportation, Jefferson City, MO, 641 pp.
12. Anderson, N., **Sneed, L.H.***, Rosenblad, B., 2015. “MoDOT Pavement Preservation Research Program. Volume IV, Pavement Evaluation Tools – Data Collection Methods.” Report CMR16-004 v4, Missouri Department of Transportation, Jefferson City, MO, 102 pp.
11. Foudazi, A., Ghasr, M., Donnell, K.*, **Sneed, L.**, 2015. “Application of Active Microwave Thermography for Inspection of Rehabilitated Cement-Based Structures – Final Report,” Publication No. 15-01, Center for Infrastructure Engineering Studies, Missouri University of Science and Technology, 17 p.
10. **Sneed, L.H.***, Anderson, N., Torgashov, E., 2015. “Air-Launched GPR Evaluation for Rapid Assessment of MoDOT Bridge Decks.” Report CMR15-009, Missouri Department of Transportation, Jefferson City, MO.
9. He, R.¹, **Sneed, L.H.***, 2014. “Numerical Simulation of CFRP-Repaired Reinforced Concrete Columns,” Report NUTC R347, Center for Transportation Infrastructure and Safety/NUTC Program, Missouri University of Science and Technology, 25 pp.
8. Yang, Y.¹, **Sneed, L.**, Saiidi, M.*, Belarbi, A., 2014. “Repair of Earthquake-Damaged Bridge Columns with Interlocking Spirals and Fractured Bars,” Caltrans, Final Report CA 14-2179, Missouri University of Science and Technology, University of Nevada, and University of Houston, July 2014.
7. **Sneed, L.H.***, Anderson, N., Torgashov, E., 2014. “Non-Destructive Evaluation of MoDOT Bridge Decks – Pilot Study.” Report CMR14-010, Missouri Department of Transportation, Jefferson City, MO.
6. **Sneed, L.H.***, Shaw, D.¹, 2013. “Lightweight Modification Factor for Shear Friction,” Report NUTC R276/R317, Center for Transportation Infrastructure and Safety/NUTC Program, Missouri University of Science and Technology, 117 pp.
5. Witushynsky, N.¹, **Sneed, L.H.***, 2013. “Evaluation of the Orientation of 90° and 180° Reinforcing Bar Hooks in Wide Members,” CRSI Research Note RN-2009-2, 8 pp.
4. Podhorsky, N.L.¹, **Sneed, L.H.***, 2012. “Evaluation of the Orientation of 90° and 180° Reinforcing Bar Hooks,” Report NUTC R257, Center for Transportation Infrastructure and Safety/NUTC Program, Missouri University of Science and Technology, 172 pp.
3. **Sneed, L.H.***, Belarbi, A., and You, Y-M., 2010. “Spalling Solution of Precast Prestressed Bridge Deck Panels,” Report OR11-005, Missouri Department of Transportation, Jefferson City, MO.
2. **Sneed, L.H.*** and Ramirez, J.A., 2008. “Effect of Depth on the Shear Strength of Concrete Beams Without Shear Reinforcement – Experimental Study,” Report PCA R&D SN2921, Portland Cement Association, Skokie, IL.
1. **Haynes, L.***, 1997. “An Investigation of Bond Between Reinforced Concrete Beams And Carbon Fiber-Reinforced Composite Plates,” Master’s Report, School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, Georgia.

CONTRACTS AND GRANTS SUMMARY

Acronyms: ASNT (American Society of Nondestructive Testing); Caltrans (California Department of Transportation); CRSI (Concrete Reinforcing Steel Institute); CRC (Concrete Research Council); MATC (Mid-America Transportation Center); MoDOT (Missouri Department of Transportation); MTI (Missouri Transportation Institute); NSF (National Science Foundation); NUTC (National University Transportation Center); PCI (Precast/Prestressed Concrete Institute); UMRB (University of Missouri Research Board); UNR (University of Nevada, Reno); USD OE (United States Department of Education); USDOT (United States Department of Transportation)

External Sponsors Total (\$8,719,820); Sneed credit (\$1,543,617)

27. USDOT/MATC; “Performance of Earthquake-Damaged Reinforced Concrete Bridges with Repaired Columns”; PI (100%); \$37,500; Jan. 2019 – Dec. 2019; active
26. SIKA Corporation; “Investigation of the Performance of Dowels in Concrete Slabs”; PI (100%); \$24,000; Nov. 2018 – Jun. 2019; active.
25. USDOT/MATC; “Rapid Repair of Earthquake-Damaged Reinforced Concrete Bridges”; PI (100%); \$65,190; Jan. 2018 – June 2019; active.
24. PCI; “Examination of Shear Friction Design Equations”; PI (90%); \$35,000; April 2017 – Dec. 2018, active.
23. USDOT; “Inspecting and Preserving Infrastructure through Robotic Exploration (INSPIRE)”; Co-PI (2%); \$2,916,899 (Years 1-2 amount shown, Years 3-5 pending); Nov. 2016 – Sept. 2022; active.

22. USDOE; “GAANN Program for Doctoral Training in Civil Infrastructure Condition Assessment, Sustainability, and Resiliency”; Co-PI (18.75%); Sept. 2016 – Aug. 2019; \$738,195 (dispersed in 3 annual distributions of \$246,140); active.
21. NSF; “A Multi-Physics-Based Approach Active to Microwave Thermography”; Co-PI (27.5%); July 2016 – June 2019; \$362,513; active.
20. GEOENGINEERS, Inc.; “Geophysical Imaging of Fly Ash Storage Sites (Addendum)”; Co-PI (5%); Dec. 2015 – Dec. 2017; \$267,635; completed.
19. GEOENGINEERS, Inc.; “Geophysical Imaging of Fly Ash Storage Sites”; Co-PI (5%); Dec. 2015 – Dec. 2017; \$462,365; completed.
18. ASNT; “Active Microwave Thermography for Nondestructive Evaluation of FRP-Rehabilitated Concrete Structures”; Co-PI (40%); Sept. 2015 – Aug. 2016; \$20,000; completed.
17. PCI; “Shear Friction of Lightweight Aggregate Concretes”; PI (100%); Aug. 2014 – Feb. 2016; \$43,025; completed.
16. CRC; “Shear Friction of Lightweight Aggregate Concretes”; PI (100%); Aug. 2014 – Feb. 2016; \$10,000; completed.
15. GEOENGINEERS, Inc.; “City Utilities Utility Waste Landfill Detailed Site Investigation: Proposed Missouri S&T Geophysical Work Plan”; Co-PI (5%); June 2014 - June 2016; \$1,900,000; completed.
14. MoDOT and USDOT/NUTC; “Air-Launched GPR Evaluation for Rapid Assessment of MoDOT Bridge Decks”; PI (50%); Sept. 2013 – May. 2015; \$26,505 (\$22,547 MoDOT and \$3,958 USDOT/NUTC); completed.
13. USDOT/NUTC; “Numerical Simulation of CFRP-Repaired Reinforced Concrete Columns”; PI (100%); May 2013 – Dec. 2013; \$16,052; completed.
12. MoDOT and USDOT/NUTC; “Nondestructive Evaluation of MoDOT Bridge Decks - Pilot Study”; PI (48%); Aug. 2012 – Mar. 2014; \$96,178 (\$48,089 MoDOT and \$48,089 USDOT/NUTC); completed.
11. NSF; “Future Directions in Composite Strengthening Applications – International Travel Support”; NSF CMMI Award No. 1247119; PI (100%); Aug. 2012 – Jun. 2013; \$9,450; completed.
10. USDOT/NUTC; “Experimental Investigation of the FRCM/Concrete Interfacial Debonding”; PI (100%); Aug. 2012 – Aug. 2013; \$1,975; completed.
9. USDOT/NUTC; “Repair of Earthquake-damaged Bridge Columns with Fractured Bars – student support”; PI (100%); Aug. 2012 – May 2013; \$13,281; completed.
8. USDOT/NUTC; “Fiber Reinforced Cementitious Matrix (FRCM) Composites for Reinforced Concrete Strengthening”; PI (100%); Aug. 2012 – May 2013; \$13,281; completed.
7. MoDOT and USDOT/NUTC; “MoDOT Pavements Thrust Research Program”; Co-PI (19%); Jun. 2012 – Aug. 2015; \$1,083,668 (\$583,668 MoDOT and \$500,000 USDOT/NUTC); completed.
6. Caltrans via University of Nevada, Reno (Primary Contractor) and USDOT/NUTC; “Emergency Repair of Damaged Bridge Columns Using Mechanical Splices”; PI of Subcontract to Missouri S&T (100%); Feb. 2012 – Feb. 2014; \$131,708 (\$65,855 Caltrans via UNR and \$65,853 USDOT/NUTC); completed.
5. USDOT/NUTC; “Rapid Repair of Severely Damaged Columns”; PI (100%); Jan. 2012 – Jun. 2012; \$8,353; completed.
4. PCI and USDOT/NUTC; “Lightweight Concrete Modification Factor for Shear Friction”; PI (100%); Aug. 2011 – Aug. 2013; \$40,000 (\$20,000 PCI and \$20,000 USDOT/NUTC); completed.
3. UMRB; “Rapid Repair of Severely Damaged Columns Under Combined Loading Effects”; PI (100%); Feb. 2010 – Jan. 2012; \$35,800; completed.
2. CRSI and USDOT/NUTC; “Evaluation of the Orientation of 90° and 180° Reinforcing Bar Hooks in Wide Members”; PI (100%); Aug. 2009 – May 2011; \$45,000 (\$30,000 CRSI and \$15,000 USDOT/NUTC); completed.
1. MTI/MoDOT and USDOT/NUTC; “MTI/MoDOT Collaborative Structures Research Program - Project 1b - Spalling Solution of Precast-Prestressed Bridge Deck Panels”; Co-PI (40%); Sept. 2008 – June 2009; PI (100%); July 2009 – Aug. 2010; \$316,247 (\$194,614 MoDOT and \$121,633 USDOT/NUTC); completed.

Internal Awards Total (\$45,150); Sneed credit (\$24,850)

12. Intelligent Systems Center (ISC) at Missouri S&T; “Machine Learning for Post-Earthquake Response in a Smart City”; PI (50%); Jan. 2018 – Dec 2018; \$24,000; completed.
11. Center for Infrastructure Engineering Studies (CIES) at Missouri S&T; “A Multi-Physics-Based Approach to Active Microwave Thermography”; PI (60%); Jan. 2017 – May 2017; \$5,000; completed.

10. Opportunities for Undergraduate Research Experience (OURE), Undergraduate Affairs; Sarah Jemison; “Investigation of Bond Behavior of PBO Fiber Reinforced Cementitious Matrix Composites”; PI (100%); FY 2016-2017; \$200; completed.
9. Opportunities for Undergraduate Research Experience (OURE), Undergraduate Affairs; Chris Moore; “A Study on Anchorage for FRCM-Concrete Joints”; PI (100%); FY 2016-2017; \$200; completed.
8. Center for Infrastructure Engineering Studies (CIES) at Missouri S&T; “A Multi-Physics-Based Approach to Active Microwave Thermography”; PI (60%); Jan. 2017 – May 2017; \$5,000; completed.
7. Opportunities for Undergraduate Research Experience (OURE), Undergraduate Affairs; Nikkolas Edmond; “Shear Friction of Lightweight Concrete”; PI (100%); FY 2015-2016; \$200; completed.
6. Center for Infrastructure Engineering Studies (CIES) at Missouri S&T; “Application of Active Microwave Thermography for Inspection of Rehabilitation of Cement-Based Structures”; Co-PI (30%); \$9,000; Aug. 2014 – May. 2015; completed.
5. Visiting Faculty Support, Office of Sponsored Programs (OSP); PI (100%); \$2000; Aug. 2014 – Aug. 2015; completed.
4. Visiting Faculty Support, Office of Sponsored Programs (OSP) and USDOT/NUTC; PI (100%); \$3950 (\$1975 OSP and \$1975 USDOT/NUTC); Aug. 2012 – Aug. 2013; completed.
3. Opportunities for Undergraduate Research Experience (OURE), Undergraduate Affairs; Adam Morgan; “Effects of Curing Conditions on the Properties of FRP Reinforcement”; PI (100%); FY 2010-2011; \$200; completed.
2. Opportunities for Undergraduate Research Experience (OURE), Undergraduate Affairs; Corey Grace; “Seismic Behavior of Bridge Piers under Combined Loading: Testing and Evaluation using Network for Earthquake Engineering (NEES) Cyber Testing Facilities”; PI (100%); FY 2009-2010; \$200; completed.
1. Opportunities for Undergraduate Research Experience (OURE), Undergraduate Affairs; Kyle Holman; “Tools for Structural Analysis: Laboratory Modeling”; PI (100%); FY 2009-2010; \$200; completed.

TEACHING ACTIVITIES

COURSES TAUGHT (MISSOURI S&T)

- CE 6221 (formerly CE 419), “Behavior of Reinforced and Prestressed Concrete” (Fall 2017)
- CE/ArchE 5220 (formerly CE/ArchE 327), “Advanced Reinforced Concrete Structures Design” (Spring 2018, Fall 2015, Fall 2014, *each with online course synchronous*)
- CE 5000 & CE 6000, “Special Problems – Civil Engineering in Southern Africa” (Spring 2018)
- CE/ArchE 3220 (formerly CE/ArchE 223), “Reinforced Concrete Design” (Spring 2019, Fall 2018, Spring 2017, Fall 2016, Spring 2015)
- CE 419, “Behavior of Reinforced and Prestressed Concrete” (Spring 2014, Spring 2012, Fall 2010)
- CE/ArchE 327, “Advanced Reinforced Concrete Structures Design” (Spring 2013 *with online course synchronous*, Spring 2011)
- CE/ArchE 223, “Reinforced Concrete Design” (Fall 2013, Spring 2013, Fall 2012, Spring 2012, Fall 2011, Spring 2011, Spring 2010, Fall 2009)
- CE/ArchE 217, “Structural Analysis” (Spring 2009, Fall 2008)

COURSES TAUGHT (UNIVERSITY OF PADUA, for SAHC Masters in Structural Analysis of Monuments and Historical Constructions)

- SA5, “Repair and Strengthening Techniques,” Co-instructor (2015)

GUEST LECTURES

- CE 003, “Written Communication, Academic Ethics, and Plagiarism,” April 15, 2014, Missouri S&T
- MET 305/EE 375, “Field Investigation of Spalling in Bridge Decks with Partial-Depth Precast Concrete Panels Systems Using Non-Destructive Testing,” February 8, 2011, Missouri S&T

GRADUATE STUDENTS ADVISED

(IP) denotes in progress; † denotes graduate student coadvised

Ph.D.

2018 - (IP)	Nikkolas Edgmond	A Study of Concrete Interface Shear Transfer
2018 - (IP)	Giacomo Fraioli	Seismic Repair of RC Bridge Structures
2016 - (IP)	Xingxing Zou	Bond Behavior of Advanced Composites
2016 - 2018	Jaime Gonzalez [†]	Behavior of RC Beams Strengthened in Shear with FRCM Composites <i>Ph.D. degree from University of Padua (Italy)</i>
2012 - 2018	Meyyada Alabdulhady	Torsional Behavior of RC Beams Strengthened with PBO-FRCM Composite
2016 - 2017	Salvatore Verre [†]	Structural Behavior of Reinforced Concrete Members Strengthened with FRCM Composites <i>Ph.D. degree from University of Calabria (Italy)</i>
2009 - 2014	Yang Yang	Repair of Earthquake Damaged Bridge Columns with Interlocking Spirals and Fractured Bars
2009 - 2014	Ruili He	Rapid Repair of Severely Damaged Reinforced Concrete Columns
2013 - 2014	Tommaso D'Antino [†]	Analysis of the Bond Behavior in Fiber Reinforced Polymer Composites Fiber Reinforced Cementitious Matrix Composites <i>Ph.D. degree from University of Padua (Italy)</i>

D.E.

2018 - (IP)	David Amori	Post-fire Evaluation of Structures
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Masters (Thesis)

2018 - (IP)	Marco Frallonardo [†]	Strengthening of Historic Masonry Arches <i>M.S. degree from University of Bologna (Italy)</i>
<i>Exp. completion Spring 2019</i>		
2017 - (IP)	Christopher Moore	A Study on End-Anchorage of Fiber Reinforced Cementitious Matrix Composites Externally Bonded to a Concrete Substrate
<i>Exp. completion Spring 2019</i>		
2017 - 2018	Sarah Jemison	Compressive Behavior of Masonry Columns with Steel Reinforced Grout (SRG) Composite
2017 - 2018	Carolina Senesi [†]	Confinement of Masonry Columns with SRG Composites: An Experimental Investigation on the Number of Layers and Corner Condition <i>M.S. degree from University of Bologna (Italy)</i>
2016 - 2018	Nikkolas Edgmond	Examination of Shear Friction Design Provisions
2017 - 2018	Giacomo Fraioli [†]	Experimental Study of the Compressive Behavior of Masonry Columns Confined with SRG Composites <i>M.S. degree from University of Bologna (Italy)</i>
2011 - 2018	Adam Morgan	Nonlinear Finite Element Analysis of Concrete Columns Subjected to Complex Loading
2017 - 2017	Giulia Baietti [‡]	Compressive Behavior of Masonry Columns Confined with Fiber Reinforced Cementitious Matrix FRCM Composites <i>M.S. degree from University of Bologna (Italy)</i>
2014 - 2015	Samantha Wermager	Shear Friction of Lightweight Clay and Slate Aggregate Concretes with Varied Reinforcement Ratios
2013 - 2015	Kristian Krc	An Investigation of Shear Friction of Lightweight Aggregate Concretes
2012 - 2014	Brandon Goodwin	Bridge Decks Condition Assessment using Destructive and Nondestructive Methods
2011 - 2013	Dane Shaw	Direct Shear Transfer of Lightweight Aggregate Concretes with Non-monolithic Interface Conditions
2009 - 2012	Dayi Zhang	Effect of Side Edge Distance and Concrete Materials on Corrosion of Precast Prestressed Concrete Panels
2010 - 2011	Nichole Podhorsky	Evaluation of the Orientation of 90° and 180° Reinforcing Bar Hooks in Wide Members
2010 - 2011	Steven Grelle	Categorization and Experimental Evaluation of Anchorage Systems for Fiber-Reinforced Polymer Laminates Bonded to Reinforced Concrete Structures
2008 - 2010	Kandi Wieberg	Field Investigation of Spalling in Bridge Decks with Partial-Depth Precast Concrete Panel Systems Using Non-Destructive Testing

GRADUATE STUDENTS ADVISED – AWARDS

2017	Meyyada Alabdulhady	MoDOT Transportation Infrastructure Conference – Second Place Poster
2017	Chris Moore	ACI Missouri Chapter Honorary Luke and Billie Snell Undergraduate Scholarship
2017	Sarah Jemison	ACI Missouri Chapter Honorary Luke and Billie Snell Undergraduate Scholarship
2017	Sarah Jemison	13 th Annual Missouri S&T Undergraduate Research Conference – First Place Poster, Engineering
2017	Sarah Jemison	Chi Epsilon Focht National Scholarship
2015	Samantha Wermager	ASCE SEI – St. Louis Chapter Structural Engineering Scholarship
2015	Samantha Wermager	ACI Missouri Chapter Honorary Abdeldjelil ‘DJ’ Belarbi Scholarship
2014	Samantha Wermager	Missouri S&T Chancellor Fellowship
2014	Kristian Krc	ACI Missouri Chapter Honorary Abdeldjelil ‘DJ’ Belarbi Scholarship
2013	Yang Yang	International Concrete Repair Institute (ICRI) Great Plains Chapter Scholarship
2012	Adam Morgan	ACI Missouri Chapter Honorary Abdeldjelil ‘DJ’ Belarbi Scholarship
2012	Dane Shaw	ACI Richard N. White Fellowship
2011	Ruili He	International Concrete Repair Institute (ICRI) Great Plains Chapter Scholarship
2011	Corey Grace	ACI Missouri Chapter Honorary Abdeldjelil ‘DJ’ Belarbi Scholarship
2011	Dane Shaw	ACI Missouri Chapter Honorary Abdeldjelil ‘DJ’ Belarbi Scholarship
2011	Ruili He	ACI Missouri Chapter Graduate Poster Competition – Third Place
2011	Steven Grelle	Missouri S&T Chancellor’s Fellows Research Poster Presentation – First Place
2011	Kandi R. Spraggs née Wieberg	Center for Transportation Infrastructure and Safety (CTIS) Outstanding Student of the Year
2010	Steven Grelle	Missouri S&T Chancellor Fellowship

UNDERGRADUATE STUDENT RESEARCH ADVISED

2016-2017	Christopher Moore, A Study on Anchorage for FRCM-Concrete Joints (OURE Advisor), Fall Semester 2016 – Spring Semester 2017
2016-2017	Sarah Jemison, Investigation of Bond Behavior of PBO Fiber-Reinforced Cementitious Matrix Composite on Low Strength Concrete Interfaces (OURE Advisor), Fall Semester 2016 – Spring Semester 2017
2015-2016	Nikkolas Edgmond, Shear Friction of Lightweight Concrete (OURE Advisor), Fall Semester 2015 – Spring Semester 2016
2010-2011	Adam Morgan, Effects of Curing Conditions on the Properties of FRP Reinforcement (OURE Advisor), Fall Semester 2010 – Spring Semester 2011
2009-2010	Corey Grace, Seismic Behavior of Bridge Piers under Combined Loading: Testing and Evaluation using Network for Earthquake Engineering Simulation (NEES) Cyber Testing Facilities (OURE Advisor and Independent Study Advisor), Fall Semester 2009 - Spring Semester 2010
2009-2010	Kyle Holman, Development: Tools for Structural Analysis: Laboratory Modeling (OURE Advisor and Independent Study Advisor), Spring Semester 2009 – Spring Semester 2010
2009	Dylan Ream, Study of Reinforced Polyurea Systems for Seismic Retrofit of Structural Concrete (Independent Study Advisor), Spring Semester 2009

VISITING FACULTY SCHOLARS AND STUDENT SCHOLARS HOSTED

2018-present	Marco Frallonardo (visiting student scholar, University of Bologna, Italy)
2018-present	Dr. Jing Zhu (visiting faculty scholar, Harbin University of Science and Technology, China)
2018-present	Dr. Jing Yu (visiting faculty scholar, Xi’an University of Architecture and Technology, China)
2017-2018	Carolina Senesi (visiting student scholar, University of Bologna, Italy)
2016-2017	Giacomo Fraioli (visiting student scholar, University of Bologna, Italy)
2016-2017	Giulia Baietti (visiting student scholar, University of Bologna, Italy)
2015	Dr. Christian Carloni (visiting faculty scholar, University of Bologna, Italy)

2015	Salvatore Verre (visiting student scholar, University of Calabria, Italy)
2012-2013	Tommaso D'Antino (visiting student scholar, University of Padua, Italy)
2012-2013	Dr. Wei Ren (visiting faculty scholar, Chang' an University, China)
2012	Dr. Christian Carloni (visiting faculty scholar, University of Hartford, CT)

SERVICE ACTIVITIES

PROFESSIONAL ORGANIZATION COMMITTEES AND SERVICE

- ACI Committee 318 Building Code Committee, Subcommittee E Section and Member Strength (Voting Member since 2014)
- ACI Committee 440-F Anchorage TG, Fiber Reinforced Polymer Reinforcement, FRP Repair and Strengthening Subcommittee, Anchorage Task Group (Member since 2014)
- ACI/ASCE Joint Committee 445 Shear and Torsion (Voting Member since 2014, Associate Member 2008-2014)
- ACI/ASCE Joint Committee 445-B Shear and Torsion, Seismic Shear Subcommittee (Member since 2014)
- ACI/ASCE Joint Committee 445-D Shear and Torsion, Database Subcommittee (Member since 2011)
- ACI/ASCE Joint Committee 445-E Shear and Torsion, Torsion Subcommittee (Member since 2014)
- ACI Committee 549, Thin Reinforced Cementitious Products and Ferrocement (Voting Member since 2016)
- ACI Committee 549 Liasion Subcommittee with RILEM TC 250 (Voting Member since 2016)
- ACI Committee S805 Collegiate Concrete Council (Chair 2012-2014, Member since 2007)
- ACI Committee S803 Faculty Network Committee (Vice-Chair, Member since 2008)
- ACI Student and Young Professional Activities Committee (SYPAC) (Member 2011-2015)
- ACI Committee on Nominations (Member 2011)
- ACI Committee on Awards for Papers (CAP), SC3 Chester Paul Siess Award for Excellence in Structural Research (Member 2014; 2008-2009)
- CRSI Standards Development Committee (Member since 2014)
- PCI Design Specification Committee (Consulting Member since 2018)
- 2012 NEES Quake Summit Technical Committee (Voting member 2011-2012)

PROFESSIONAL ORGANIZATION AFFILIATIONS

- American Concrete Institute (Fellow since 2016, Member since 1999)
- American Society of Civil Engineering (Member 2018 – present; 2008-2009)
- Chi Epsilon (Member since 1995)
- Earthquake Engineering Research Institute (Member 2005-2007)
- Precast/Prestressed Concrete Institute (Member since 2010)
- Tau Beta Pi (Member since 1995)

PROFESSIONAL ORGANIZATION CONFERENCES AND SESSIONS

- 2019 International Conference on SHM of Intelligent Infrastructure (SHMII-9). Local Organizing Committee Member (*scheduled 2019*)
- 2017 MoDOT Transportation Infrastructure Conference. Moderator (December 2017)
- MuRiCo5 – 5th International Conference on Mechanics of Masonry Structures Strengthened with Composites. Key Lectures (III). Session Chair (June 2017)
- ACI Spring 2017 Convention, ACI Committee 549: “Steel Reinforced Grout (SRG) – A New Tool in the Repair Toolbox.” Co-Moderator (March 2017)
- CICE 2016 - 8th International Conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering. Session Chair (December 2016)
- 2016 MoDOT Transportation Infrastructure Conference. Moderator (November 2016)
- ICCS18 – 18th International Conference on Composite Structures: Session 36.1. Chair; Session General. Chair (June 2015)
- ACI Fall 2012 Convention, ACI Committee S805: “Things They Don’t Teach You in School.” Co-Moderator (October 2012)
- NEES Quake Summit 2012: “Technical Session 9: Use of NEES Data.” Co-Moderator (July 2012)
- ACI Fall 2011 Convention, ACI Committee 408: “Recent Development in Bond Splice Tests.” Co-Moderator

(October 2011)

EDITORIAL ACTIVITIES

- ACI 549, ACI 562, RILEM TC 250 CSM Symposium Volume “Textile Reinforced Mortar (TRM) / Fabric Reinforced Cementitious Matrix (FRCM) as external bonded reinforcement Steel Reinforced Grout (SRG) - A New Tool in the Repair Toolbox” (Coeditor, published 2018)
- ASCE Journal of Composites for Construction (Associate Editor, 2018 – present; Editorial Board Member, 2018)

PEER REVIEW ACTIVITIES

- NSF, panel/proposal reviewer (2018, 2017, 2016, 2015, 2014, 2013, 2012)
- Concrete Research Council, proposal reviewer (2017)
- University of Missouri Research Board, proposal reviewer (2016, 2015, 2013)
- Center for Infrastructure Engineering Studies (CIES) at Missouri S&T, proposal reviewer (2018)
- ACI Structural Journal, ACI Materials Journal, ACI Symposium Publications, ASCE Journal of Bridge Engineering, ASCE Journal of Composites for Construction, ASCE Journal of Materials in Civil Engineering, Composites Part B, Concrete International, Construction and Building Materials, Earthquake Engineering and Structural Dynamics, Earthquake Engineering and Engineering Vibration, Engineering Structures, IEEE Transactions on Instrumentation & Measurement, International Journal of Bridge Engineering, International Journal of Concrete Structures and Materials, Journal of Composite Structures, Materials and Structures, Measurement, PCI Journal, Polymers Journal, Structural Concrete, Structural Engineering and Mechanics, manuscript reviewer
- External Reviewer of PhD thesis: University of Bologna

UNIVERSITY SERVICE

- ACI-Missouri S&T Student Chapter, Faculty Advisor (Spring 2010 – present)
- CArEE Structures Faculty Group Leader (Fall 2016 – present)
- CArEE Mentoring Committee, Member (Dr. Yan: 2016 – present; Dr. Wu: 2017 – present)
- CArEE Vision 2020 Committee, Member (Fall 2010 – Fall 2012)
- CArEE Strategic Planning Committee, Member (Fall 2010 – Fall 2012)
- CE Undergraduate Programming Committee, Member (Fall 2013 – Spring 2014, Fall 2012 – Spring 2013, Fall 2008 – Spring 2009)
- CArEE Open House Coordinator (Fall 2012)
- CArEE Computer Committee, Member (Fall 2009 – Spring 2010)
- CArEE Graduate Activities Committee, Member (Fall 2014 – present)
- CArEE Scholarship Committee, Member (Fall 2017 – present)
- CArEE ArchE Faculty Search Committee, Member (Spring 2014 – Summer 2014)
- CArEE Abbett Chair Faculty Search Committee, Member (Fall 2012 – Spring 2013)
- CArEE Geotechnical Faculty Search Committee, Member (Fall 2017 – present)
- CArEE Hurst Chair Faculty Search Committee, Member (Fall 2016 – Spring 2018)
- CArEE Mechanics Faculty Search Committee, Member (Summer 2014 – Spring 2015)
- CArEE Structures Faculty Search Committee, Member (Fall 2011 – Spring 2012, Fall 2010 – Spring 2011)
- CArEE Structures Faculty Search Committee, Chair (Fall 2009 – Spring 2010)
- CArEE High Bay Structural Engineering Research Laboratory (SERL) Laboratory Tour Guide (2008 – present)
- CArEE Phonathon, Faculty Advisor (2014, 2013, 2012, 2011, 2010, 2009)
- Engineers Without Borders, Faculty Consultant (2009)
- Missouri S&T Advanced Materials for Sustainable Infrastructure (AMSI) Faculty Search Committee, Member (Fall 2016 – Spring 2017)
- Missouri S&T Global Studies Minor Committee, Member (Fall 2018 – present)
- Missouri S&T Equity Resolution Panel for Faculty Accused of Discrimination (Spring 2015 – Fall 2017)
- Missouri S&T Public Occasions Committee (Fall 2017 – present)
- Missouri S&T Student Conduct Committee, Member (Fall 2014 – Spring 2016)
- Missouri S&T Opening Week, Faculty Interaction Participant (Fall 2017)
- Missouri S&T Sophomore Summit, Faculty Panelist (Fall 2015, Fall 2014)

- Missouri S&T Office of Graduate Studies Selection Committee for Summer Graduate Research Fellowship (Spring 2018)
- University of Missouri System Advisory Committee for 2017-2018 Presidential Award for Excellence, Member (Spring 2018)
- University of Missouri System Advisory Committee for 2018-2019 Presidential Award for Excellence, Member (Spring 2019 - present)
- Thesis/Dissertation Graduate Committee Member
 - PhD: 22 completed, 8 in progress (Missouri S&T), 1 in progress (Purdue Univ.)
 - MS: 15 completed, 0 in progress (Missouri S&T)

UNIVERSITY SESSIONS/SEMINARS COORDINATION

- ASCE/ACI Seminar, Mr. Dane Shaw, Jacobs (September 2017)
- CIES Seminar, Dr. Thomas Kang, Seoul National University & Univ. of Illinois at Urbana-Champaign (November 2016)
- CIES Seminar, Dr. Christian Carloni, University of Bologna (August 2015, August 2012)
- CIES Seminar, Jack Gibbons and Dr. Danielle Kleinhans, CRSI (March 2012)
- EERI Distinguished Lecture, Dr. Sharon Wood, UT Austin (October 2010)

PROFESSIONAL DEVELOPMENT

- ASCE Excellence in Civil Engineering Education (ExCEED) Workshop (July 2009)
- FEMA Incident Command System Training ISC 100.b, 200.b, 700.a, 800.b (2017)
- Missouri Structural Assessment and Visual Evaluation (SAVE) Coalition Workshop on Structural Assessment and Visual Evaluation of Buildings and Vertical Structures (April 2017, August 2011)
- Missouri S&T New Faculty Forum Program (Spring 2010 and Fall 2009)
- Missouri S&T Freshman Faculty Forum Program (Fall 2008 and Spring 2009)
- NCSEA Structural Engineers Emergency Response (SEER), Registered Volunteer (September 2017)
- NSF NEES/E-Defense Collaborative Earthquake Engineering Program Planning Meeting (December 2013)
- NSF Workshop on Bridges of the Future- Widespread Implementation of Innovation (June 2011)
- NSF Civil, Mechanical and Manufacturing Innovation (CMMI) Workshop (January 2011)
- PCA Professors' Seminar (July 2017)
- PCA Bridge Professors' Seminar (August 2009)
- PCA Building Professors' Seminar (August 2009)
- PCI Structural Design Seminar (December 2010)
- Purdue University Center for Instructional Excellence Seminar Series (2006-2007)

COMPLETED CONSULTING PROJECTS

- Technology Square, Georgia Institute of Technology, Atlanta, Georgia, 2002
- 2002 Summit Boulevard Office Tower and Parking Deck, Atlanta, Georgia, 2002
- 3003 Summit Boulevard Office Tower and Parking Deck, Atlanta, Georgia, 2001
- Galleria Mall Renovation, Houston, Texas, 2001
- Galleria Mall Expansion, Houston, Texas, 2001
- Richmond Convention Center Parking Deck, Richmond, Virginia, 2001
- Total System Services Riverfront Corporate Campus Parking Deck, Columbus, Georgia, 2001
- Ahold Information Services Office Building and Data Center, Greenville, South Carolina, 2000
- NFL Stadium, Denver, Colorado, 2000
- TIAA CREF Corporate Campus, Charlotte, North Carolina, 2000
- MRDC II Lab Building, Georgia Institute of Technology, Atlanta, Georgia, 1999
- Technology Enhanced Learning Center, University of West Georgia, Carrollton, Georgia, 1999
- Cornerstone II Office Building, Plantation, Florida, 1998
- Echelon Office Building, St. Petersburg, Florida, 1998
- Granite Plaza Office Building, Las Colinas, Texas, 1998
- North Campus Parking Garage, University of Georgia, Athens, Georgia, 1998

- Reston Town Center Retail / Parking Facility, Reston, Virginia, 1998
- The Ballpark at Union Station, Houston, Texas, 1997
- Walmart Supercenter, Amory, Mississippi, 1995