



## **John J. Myers, Ph.D., P.E., F.ACI, F.ASCE, F.IIFC, F.TMS**

Professor of Civil, Architectural & Envir. Engineering  
Associate Vice Provost and Dean for Academic Affairs – College of Engr. & Computing  
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### **EDUCATION:**

#### ***THE UNIVERSITY OF TEXAS AT AUSTIN; Austin, Texas***

Doctoral of Philosophy – Department of Civil Engineering, December 1998  
Structural Engineering & Construction Materials Degree - ABET Accredited  
Dissertation – “*The Production and Quality Control of High Performance Concrete in Texas Bridge Structures*”

#### ***THE UNIVERSITY OF TEXAS AT AUSTIN; Austin, Texas***

Master's of Science – Department of Civil Engineering, May 1994  
Structural Engineering Degree – ABET Accredited  
Master's Thesis – “*Evaluation of Confined Lap-Splice Connection for Precast Construction*”

#### ***THE PENNSYLVANIA STATE UNIVERSITY; University Park, Pennsylvania***

Bachelor of Architectural Engineering – Structural Systems Option, May 1987  
Five-Year Professional Degree – ABET Accredited  
Fifth-Year Thesis – *CBS Corporate MIS Facility, Secaucus, NJ*

### **PROFESSIONAL LEADERSHIP DEVELOPMENT EDUCATION:**

#### ***HARVARD UNIVERSITY; Cambridge, Massachusetts***

Authentic Leadership Development, Course completed February 12 to February 17, 2017  
Negotiation and Competitive Decision Making, Course completed July 29 to August 3, 2018

#### ***THE PENNSYLVANIA STATE UNIVERSITY; University Park, Pennsylvania***

Penn State Academic Leadership Academy – June 18 to June 22, 2017  
plus 6 Virtual Sessions throughout the 2017-18 Academic year, Course completed

#### ***THE UNIVERSITY OF MISSOURI SYSTEM LEADERSHIP DEVELOPMENT PROGRAM; Columbia, Missouri***

UM System LDP – Completed 2015-2016 Academic Year, Yearlong Leadership Development Program

### **ACADEMIC EMPLOYMENT:**

**Full Professor  
of Civil, Architectural,  
& Envir. Engineering**

September 2013 – Present  
**MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY\***  
Department of Civil, Architectural and Envir. Engineering

**Associate Professor  
of Civil, Architectural,  
& Envir. Engineering**

September 2005 – August 2013  
**MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY\***  
**THE UNIVERSITY OF MISSOURI – ROLLA**  
Department of Civil, Architectural and Envir. Engineering  
\* University Name Change Occurred Jan 1<sup>st</sup> 2008

**Assistant Professor  
of Civil, Architectural,  
& Envir. Engineering**

March 1999 – August 2005  
**THE UNIVERSITY OF MISSOURI – ROLLA**  
Department of Civil, Architectural and Envir. Engineering

#### ***Major Disciplines:***

Structural Engineering, Construction Materials, Infrastructure Engineering, and Architectural Engineering

#### ***Administrative Responsibilities:***

Acting Vice Provost and Dean – College of Engr. & Computing – MST: Jan. 2016 – July 2016

Associate Vice Provost and Dean for Academic Affairs – College of Engr. & Computing – MST: Jan. 2015 – Jan. 2016; July 2016 – Present  
Director of the Structural Engineering Research Laboratory – MST: Aug. 2010 – Aug. 2017  
Center Director University Transportation Center (Interim) – UMR/MST: Jan. 2007 – Oct. 2011  
Technical Co-Director University Transportation Center – UMR: Aug. 2006 – Jan 2007  
Assoc. Director University Transportation Center – UMR/MST: Aug. 1999 – Aug 2006; Oct. 2010 – Aug. 2014  
Architectural Engr. Undergraduate Program Coordinator / CAR EE Dept. Asst. Chair: Aug. 2002 – Dec. 2010

**Research Investigator:**

ALERT Center of Excellence: Homeland Security  
Center for Infrastructure Engineering Studies (*Current*)  
National University Transportation Center  
NSF Industry/University Cooperative Research Center-RB<sup>2</sup>C  
Transportation & Infrastructure Cluster  
Materials Research Cluster

**Research Assistantships**

May 1993 – May 1994  
September 1994 – December 1998  
**THE UNIVERSITY OF TEXAS AT AUSTIN**  
Department of Civil Engineering - Ferguson Structural Engineering  
Laboratory & Construction Materials Research Group

**Teaching Assistantships**

September 1992 – January 1995  
**THE UNIVERSITY OF TEXAS AT AUSTIN**  
Department of Civil Engineering  
GTA-CE314K - Behavior of Engineering Materials (5 Semesters)

**PROFESSIONAL EMPLOYMENT:**

<b>Structural Project Engineer / Manager</b>	April 1994 – March 1999 <b>JOSE I. GUERRA, INC.</b> (Consulting Engineers) Austin, Texas
<b>Structural Engineer</b>	March 1991 – August 1992 <b>LPJ INCORPORATED</b> (Structural Engineers) Baltimore, Maryland
<b>Structural Design &amp; Project Engineer</b>	June 1987 – March 1991 <b>RTKL ASSOCIATES, INC.</b> (Architectural Engineers) Baltimore, Maryland

**PUBLICATIONS:**

**REFEREED JOURNAL AND SPECIAL JOURNAL PUBLICATIONS**

**MANUSCRIPT DRAFTS COMPLETED OR UNDERDEVELOPMENT – TO BE SUBMITTED (16)**

**ARTICLES UNDER REVIEW OR REVISION (9) AVAILABLE UPON REQUEST**

**ARTICLES ALREADY PUBLISHED (UNDERLINE INDICATES CORRESPONDING AUTHOR) GOOGLE H-INDEX = 19**

- J1. Gheni, A.A., Alghazali, H.H., ElGawady, M.A. and **Myers, J.J.**, Feys, D. "Durability Properties of Cleaner Cement Mortar with by-products of Tire Recycling" Elsevier's Journal of Cleaner Production, <https://doi.org/10.1016/j.jclepro.2018.12.260>, March 2019, Vol. 213, pp. 1135-1146.
- J2. Aljabeti, Z.K., **Myers, J.J.**, ElGawady, M.A., "Experimental and Analytical Approach for Prediction of Out-Of-Plane Capacity of Reinforced Masonry Walls Strengthened with Externally Bonded FRP," American Society of Civil Engineering – Journal of Composites for Construction, Manuscript CCENG 2475, Submitted February 2018, Revised Version Submitted September 2018, Accepted November, 2018.
- J3. Aljabeti, Z.K., **Myers, J.J.**, Chandrashekhara, K., "Effect of Direct Service Temperature Exposure on the Bond Behavior between Advanced Composites and CMU Using NSM and EB Techniques," Elsevier's Composite Structures Journal, <https://doi.org/10.1016/j.compstruct.2018.11.085>, Vol. 211, March 2019, pp 63-75.
- J4. Aljazeera, Z.R., Janke, M.A., **Myers, J.J.**, "A Novel and Effective Anchorage System for Enhancing the Flexural Capacity of RC Beams Strengthened with FRCM Composites," Elsevier's Composite Structures Journal, DOI: 10.1016/j.compstruct.2018.10.110, Vol. 210, February 15, 2019, pp. 20-28.
- J5. Alghazali, H.H., **Myers, J.J.**, "Bond Performance of High Volume Fly Ash Self-consolidating Concrete in Full-scale Beams," American Concrete Institute – Structural Journal, Manuscript #S-2017-456, January 2019, Vol. 116, No. 1, pp 161-170.

- J6. Gooranorimi, O., Gremel, D., Myers, J.J., Nanni, A. "Long-term Durability of GFRP Internal Reinforcement in Concrete Structures," American Concrete Institute (ACI) Special Publication, Farmington Hills, MI, SP-12, Submitted February 2017, Accepted October 2017, In Press.
- J7. Alghazali, H.H., Aljazeera, Z.R., **Myers, J.J.** "Behavior of Full-Scale Damaged Beams Repaired using a Steel Reinforced Polymer (SRP) Technique," American Concrete Institute (ACI) Special Publication, Farmington Hills, MI, SP-12, Submitted February 2017, Accepted October 2017, In Press.
- J8. Aljaberi, Z.K., **Myers, J.J.**, Chandrashekhara, K., "Behavior of EB FRP Masonry Bond Under Service Temperature," Advanced Materials Letters, Linköping, Sweden, Manuscript ID AML1402152, DOI: 10.5185/amlett.2018.2152, Accepted June 2018, Vol. 9, No. 11, November 2018, pp. 753-759.
- J9. Alghazali, H.H., Aljaberi, Z.K., Aljazeera, Z.R., **Myers, J.J.**, "Structural Performance of Severely Damaged Reinforced Concrete Beams After SRP Repair," Advanced Materials Letters, Linköping, Sweden, Manuscript ID AML1402153, DOI: 10.5185/amlett.2018.2153, Vol. 9, No. 11, November 2018, pp. 789-795.
- J10. Aljaberi, Z.K., **Myers, J.J.**, ElGawady, M.A., "Evaluation of FRP and FRCM Composites for the Strengthening of Reinforced Masonry Walls," American Concrete Institute (ACI) Special Publication, Special Publication 327 for the FRPRCS-17 Conference, SP-327, November 2018, pp 32.1-32.16.
- J11. Aljaberi, Z.K., **Myers, J.J.**, ElGawady, M.A., "Out-of-Plane Flexural Behavior of Reinforced Masonry Walls Strengthened with NSM FRP," American Concrete Institute – Structural Journal, Manuscript #S-2017-024, Title No. 115-S76, July 2018, Vol. 115, No.4, pp 997-1010.
- J12. **Myers, J.J.**, "Developing a Greater Feel for Structural Engineering: A Faculty Approach to Augmenting Structural Engineering Student Understanding of Prestressed Member Behavior Using Parametric Analysis," Aspire – The Concrete Bridge Magazine, (Trade Journal) Vol. 1-2018, Spring 2018, pp. 36-38.
- J13. Hernandez, E.S., Myers, J.J. "Diagnostic Test for Load Rating of a Prestressed SCC Bridge," American Concrete Institute (ACI) Special Publication, Farmington Hills, MI, SP-323, May 2018, pp. 11.1-11.16.
- J14. Aljazeera, Z.R., **Myers, J.J.**, "Flexural Performance of Reinforced Concrete One-Way Slabs Strengthened with Composite Materials," American Society of Civil Engineering – Journal of Materials in Civil Engineering, doi.org/10.1061/(ASCE)MT.1943-5533.0002299, Manuscript MTENG-S-17-00842, Vol. 30, No. 7, July 2018, pp. 1-10.
- J15. Abeol Seoud, M.A., **Myers, J.J.**, "Hybrid Composite Beam (HCB) Bridge Superstructure Design Considerations for Thermal Gradient," American Society of Civil Engineering – Journal of Composites for Construction, https://doi.org/10.1061/(ASCE)CC.1943-5614.0000838, Available on line March 2018, Vol. 22, No. 3, June 2018, pp 11.
- J16. Carey, N.L., **Myers, J.J.**, Asprone, D., Menna, C., Prota, A. "Polyurea Coated and Plain Reinforced Concrete Panel Behavior under Blast Loading: Numerical Simulation to Experimental Results", Journal Trends in Civil Engineering and its Architecture, Lupine Publishers, <http://www.lupinepublishers.com/tceia/pdf/TCEIA.MS.ID.000119.pdf>, March 2018, Vol. 1, No. 4, pg. 1-12.
- J17. Aljaberi, Z.K., **Myers, J.J.**, ElGawady, M.A., "Pseudo-Static Cyclic Loading Comparison of Reinforced Masonry Walls Strengthened with FRCM or NSM FRP," Elsevier's Construction and Building Materials, Amsterdam, Netherlands, April 2018, Vol. 167, Pages 482-495, doi.org/10.1016/j.conbuildmat.2018.02.043, pp. 482-495.
- J18. Aljazeera, Z.R., **Myers, J.J.**, "Erratum for Strengthening of Reinforced Concrete Beams in Shear with a Fabric-Reinforced Cementitious Matrix," American Society of Civil Engineering – Journal of Composites for Construction, doi: 10.1061/(ASCE)CC.1943-5614.0000726, December 2017, Vol. 21, No. 6, 21(6)08217001-1.
- J19. Alghazali, H.H., **Myers, J.J.**, "Shear Behavior of Full-Scale High Volume Fly Ash-Self Consolidating Concrete (HVFA-SCC) Beams," Elsevier's Construction and Building Materials Journal, Amsterdam, Netherlands, Vol. 157, December 2017, pp. 161-171, doi: https://doi.org/10.1016/j.conbuildmat.2017.09.061.
- J20. Alghazali, H.H., Myers, J.J., "Optimization Performance of High Volume Fly Ash Self-Consolidating Mixtures with Hydrated Lime (Mortar Component)," American Concrete Institute (ACI) Special Publication, Farmington Hills, MI, SP-320-46, August 2017, pp. 46.1-46.12, <https://www.concrete.org/publications/internationalconcreteabstractsportal.aspx?m=details&ID=51701084>.
- J21. Alghazali, H.H., **Myers, J.J.**, "Performance Study of Ecological Self-Consolidating Cement Mixtures (ECO-SCCM)," American Society of Civil Engineering – Journal of Materials in Civil Engineering, Vol. 29, Issue 12, December 2017, pp. 1-11, doi: https://doi.org/10.1061/(ASCE)MT.1943-5533.0002102.
- J22. Gheni, A.A., ElGawady, M.A., Myers, J.J., "Thermal Characterization of Cleaner and Eco-efficient Masonry Units using Sustainable Aggregates," Elsevier's Journal of Cleaner Production, November 2017, Vol. 165, pp 980-983, doi: 10.14359/51689482.
- J23. Alghazali, H.H., **Myers, J.J.**, "Temporal Dependent Prestress Loss Behavior of NU Bridge Girders in Missouri Bridge A7957," Precast-Prestressed Concrete Institute Journal, Manuscript #17-025, Paper Link, November-December 2017 Issue, pp. 76-87.
- J24. Gooranorimi, O., Myers, J., and Nanni, A., "GFRP Reinforcements in Box Culvert Bridge: A Case Study After Two Decades of Service," Concrete Pipe and Box Culverts, ASTM STP1601, J. Meyer and J. Beakley, Eds., ASTM International, West Conshohocken, PA, October/November 2017, pp. 75–88, doi: <http://dx.doi.org/10.1520/STP160120160119>.
- J25. Aljazeera, Z.R., **Myers, J.J.**, "Strengthening of Reinforced Concrete Beams in Shear with a Fabric-Reinforced Cementitious Matrix," American Society of Civil Engineering – Journal of Composites for Construction, October 2017, Vol. 21, No. 5, 21(5)04017041, pp. 1-11, doi: https://doi.org/10.1061/(ASCE)CC.1943-5614.0000822.

- J26. Aljazaeri, Z.R., **Myers, J.J.**, "Fatigue and Flexural Behavior of Reinforced Concrete Beams Strengthened with a Fiber Reinforced Cementitious Matrix", American Society of Civil Engineering – Journal of Composites for Construction, February 2017, Vol. 21, No. 1, 21(1)0401675, pp.1-7, doi: org/10.1016/j.jclepro.2017.07.189.
- J27. Gheni, A.A., ElGawady, M.A., **Myers, J.J.**, "Mechanical Characterization of Concrete Masonry Units Manufactured with Crumb Rubber Aggregate," American Concrete Institute (ACI) Materials Journal, Farmington Hills, MI, Volume 114, Issue 1, January 2017, pp 65-76, doi: 10.14359/51689482, pp. 65-76.
- J28. Abeol Seoud, M.A., **Myers, J.J.**, "Durability of Hybrid Composite Beam (HCB) Bridges Subjected to Various Environmental Conditioning," American Society of Civil Engineering – Journal of Composites for Construction, December 2016, Vol. 20, No. 6, 20(6)04016045, pp. 1-13, doi: 10.1061/(ASCE)CC.1943-5614.0000696.
- J29. Alghazali, H.H., **Myers, J.J.**, "A Study of Elastic Shortening Losses of High-Strength Self-Consolidating Concrete Prestress Girders," International Journal of Research in Engineering and Science (IJRES), Vol. 4, Issue 9, ISSN (Print) 2320-9356, September 2016, pp 06-16.
- J30. Griffin, A., **Myers, J.J.**, "Shear Behavior of High-strength Self-consolidating Concrete in NU Bridge Girders," Prestressed-Precast Concrete Institute Journal, May-June 2016, Vol. 61, No. 3, pp. 31-46.
- J31. Hernandez, E.S., **Myers, J.J.**, "Use of Self-Consolidating Concrete and High Volume Fly Ash Concrete in Missouri Bridge A7957," American Concrete Institute Special Publication, Sustainable Performance of Concrete Bridges and Elements Subjected to Aggressive Environments: Monitoring, Evaluation & Rehabilitation, Vol. 304, October 2015, pp 85-100.
- J32. **Myers, J.J.**, Bailey, W.L., "Seven-Wire Low Relaxation Prestressing Tendon Subjected to Extreme Temperatures: Residual Properties," International Journal of Engineering Sciences and Research Technology, Vol. 4, No. 3, August 2015, ISSN 2319-5991, pp 1-17.
- J33. Arezoumandi, M., Volz, J.S., Ortega, C.O., **Myers, J.J.**, "Shear Behavior of High-Volume Fly Ash Concrete versus Conventional Concrete – Experimental Study" American Society of Civil Engineering – Journal of Structural Engineering, April, 2015, Vol. 141, No. 3, pp. B401 4006-1 – 4006-11, doi: http://dx.doi.org/10.1061/(ASCE)ST.1943-541X.0001003.
- J34. Abeol Seoud, M.A., **Myers, J.J.**, "Finite Element Modeling of Hybrid Composite Beam Bridge in Missouri, USA," American Society of Civil Engineering – Journal of Bridge Engineering, January 2015, Vol. 20, No. 1, pp. 1-11, doi: http://dx.doi.org/10.1061/(ASCE)BE.1943-5592.0000635.
- J35. Arezoumandi, M., Volz, J.S., **Myers, J.J.**, "Shear Behavior of High-Volume Fly Ash Concrete versus Conventional Concrete" American Society of Civil Engineering – Journal of Structural Engineering, October, 2013, Vol. 25, No. 10, pp. 1506-1513, doi: http://dx.doi.org/10.1061/(ASCE)MT.1943-5533.0000700.
- J36. **Myers, J.J.**, Bloch, K.E. "Comparison of Prestress Losses for Pedestrian Bridges Constructed with HSC and HS-SCC," American Society of Civil Engineering – Journal of Bridge Engineering, September, 2013, pp. 871-878, doi: http://dx.doi.org/10.1061/(ASCE)BE.1943-5592.0000431.
- J37. **Myers, J.J.**, Tinsley, M. "Impact Resistance of a Blast Mitigation Material Using a Modified ACI Drop-Weight Impact Test," American Concrete Institute – Materials Journal, May-June 2013 issue of the ACI Materials Journal, Vol. 110 No. 3, pp. 339-348.
- J38. Arezoumandi, M., Volz, J.S., Ortega, C.O., **Myers, J.J.**, "Effect of Total Cementitious Content on Shear Strength of High-Volume Fly Ash Concrete" Elsevier – Materials and Design Journal, Vol. 46, April 2013, pp. 301-309.
- J39. Arezoumandi, M., Volz, J.S., **Myers, J.J.**, "Effect of High-Volume Fly Ash on Shear Strength of Concrete Beams", National Research Council, Transportation Research Record – Concrete Materials 2013, August 2013, pp.1-9.
- J40. Greene, C.E., **Myers, J.J.**, "Flexural and Shear Behavior of Reinforced Concrete Members Strengthened with a Discrete Fiber-Reinforced Polyurea (DFRP) System", American Society of Civil Engineering – Journal of Composites in Construction, Vol. 17, No. 1, January/February 2013, pp. 108-116, doi: http://dx.doi.org/10.1061/(ASCE)CC.1943-5614.0000308.
- J41. Looney, T. J., Arezoumandi, M., Volz, J. S., **Myers, J.J.** "An Experimental Study on Bond Strength of Reinforcing Steel in High-Volume Fly ash Concrete", Advances in Civil Engineering Materials, ASTM, Vol.1, No.1, pp. 1–17, November 2012, Paper ID ACEM20120026.
- J42. Looney, T.J., Arezoumandi, M., Volz, J.S., **Myers, J.J.**, "An Experimental Study on Bond Strength of Reinforcing Steel in Self-Consolidating Concrete," International Journal of Concrete Structures and Materials (IJCSM), Springer, Vol.6, No.3, pp.187–197, September 2012.
- J43. Carey, N.L., **Myers, J.J.**, "Full-Scale Blast Testing of Hybrid Barrier Systems," American Concrete Institute Special Publication-281, December 2011, 281-11, pp. 9.1-9.20.
- J44. Carey, N.L., **Myers, J.J.**, "Discrete Fiber Reinforced Polymer Systems for Repair of Concrete Structures: Polyurea-Fiber Characterization Results," American Concrete Institute Special Publication-275, March 2011, pp. 285-298.
- J45. Brewe, J.E., **Myers, J.J.**, "High-Strength Self-Consolidating Concrete Girders Subjected to Elevated Compressive Fiber Stresses Part II: Structural Behavior," Prestressed/Precast Concrete Institute Journal, Chicago, Illinois, Winter 2011, pp. 92-109.
- J46. **Myers, J.J.**, Bloch, K., "Accelerated Construction for Pedestrian Bridges: A Comparison between High-Strength Concrete (HSC) and High-Strength Self Consolidating Concrete (HS-SCC)," American Society of Civil Engineering, Geotechnical Special Publication, Issue 219 GSP, 2011, pp. 129-136.
- J47. **Myers, J.J.**, Zheng, W., "Modern Protection Systems to Prevent Corrosion of Structural Steel Elements due to Deicing and Roadway Salts," American Society of Civil Engineering, Geotechnical Special Publication, Issue 219 GSP, 2011, pp. 121-128.

- J48. Schofer, J.L., Evans, L., Freeman, M.P., Galehouse, L.L., Madanat, S., Maher, A., McNeil, S., **Myers, J.J.**, Peskin, R.L., Wlaschin, "Research Agenda for Transportation Infrastructure Preservation and Renewal: Conference Report," American Society of Civil Engineering – Journal of Infrastructure Systems, Vol. 16, No. 4, December 2010, pp 228-230.
- J49. Brewe, J.E., **Myers, J.J.**, "High-Strength Self-Consolidating Concrete Girders Subjected to Elevated Compressive Fiber Stresses Part I: Prestress Loss and Camber Behavior," Prestressed/Precast Concrete Institute Journal, Chicago, Illinois, Fall 2010, Vol. 55, No. 4, pp.59-77.
- J50. Baur, S., **Myers, J.J.**, LaBoube, R., "Architectural Engineering Curriculum at Missouri University of Science and Technology," American Society of Civil Engineering – Journal of Architectural Engineering, Vol. 16, No. 2, June 2010 pp 74-79.
- J51. Ekenel, M., **Myers, J.J.**, "Fatigue Performance of RC Beams Under Environmental Conditioning and Sustained Load," American Society of Civil Engineering – Journal of Composites in Construction, Vol. 13, No. 2, March/April 2009, pp 93-102.
- J52. Micelli, F., **Myers, J.J.** "Durability of FRP-Confined Concrete", Institution of Civil Engineers (ICE): Journal of Construction Materials, London, UK, November 2008 Vol. 161, No.CM4, pp. 173-185.
- J53. Hrynyk, T., **Myers, J.J.**, "Out-of-Plane Behavior of URM Arching Walls with Modern Blast Retrofits: Experimental Results and Analytical Model," American Society of Civil Engineering – Journal of Structural Engineering, Vol. 134, No. 10, October 2008, pp. 1589-1597.
- J54. **Myers, J.J.**, "Recent Advances and Trends in Concrete Technologies", The Georgia Contractor, Canton, Georgia, Vol. 4, No. 4, July/August 2008, pp. 40-42.
- J55. Ekenel, M., **Myers, J.J.**, "Non-destructive Evaluation of RC Structures Strengthened with FRP Laminates Containing Near-Surface Defects," Journal of Science and Engineering of Composite Materials, Vol. 14, No. 4, December 2007, pp 299-316.
- J56. Kleinhans, D.D., **Myers, J.J.**, Nanni, A. "Assessment of Load Transfer and Load Distribution for Bridges Utilizing FRP Panels", American Society of Civil Engineering – Journal of Composites for Construction, Vol. 11, No. 5, September/October 2007, pp. 545-552.
- J57. **Myers, J.J.**, "An Alternative for Infill Wall Systems," The Concrete Producer, Vol. 2, No. 9, September, 2007, pp 37-39.
- J58. Ekenel, M., **Myers, J.J.**, "Durability Performance of Reinforced Concrete (RC) Beams Strengthened with Epoxy Injection and CFRP Laminates," Elsevier's Building and Construction Materials Journal, Vol. 21, Issue 6, Oxford, England, UK, June 2007, pp 1182-1190.
- J59. Ekenel, M., Rizzo, A., **Myers, J.J.**, Nanni, A., "Flexural Fatigue Behavior of Reinforced Concrete Beams Strengthened with FRP Fabric and Pre-Cured Laminate Systems," American Society of Civil Engineering – Journal of Composites in Construction, Vol. 7, No. 5, September/October 2006, pp 433-442.
- J60. Yang, Y., **Myers, J.J.**, "Calculating Prestress Loss: Investigating Design Methodology for a High Performance Concrete Bridge," Structural Engineer, Vol. 7, No. 5, Chicago, IL, June 2006, pp. 24-27.
- J61. Yang, Y., **Myers, J.J.**, "Prestress Loss Measurements in Missouri's First Fully Instrumented HPC Bridge," National Research Council, 2005 TRB 84<sup>th</sup> Annual Meeting, Transportation Research Record – Journal of the Transportation Research Board, No. 1928, Design of Structures 2005, Washington D.C., December 2005, pp. 118-125.
- J62. Ekenel, M., Galati, N., **Myers, J.J.**, Nanni, A., Godinez, V., "Acousto-Ultrasonic Technology for Non-Destructive Evaluation of CFRP Strengthened Concrete Bridge Members," National Research Council, 2005 TRB 84<sup>th</sup> Annual Meeting, Transportation Research Record – Journal of the Transportation Research Board, No. 1928, Design of Structures 2005, Washington D.C., December 2005, pp. 245-251.
- J63. Carney, P., **Myers, J.J.**, "Static and Blast Resistance of Unreinforced Masonry Wall Connections Strengthened with Fiber Reinforced Polymers," American Concrete Institute Special Publication-230, November 2005, pp. 229-248.
- J64. **Myers, J.J.**, Ekenel, M., "Effect of Environmental Conditions on Bond Strength between CFRP Laminate and Concrete Substrate", American Concrete Institute Special Publication-230, November 2005, pp. 1571-1592.
- J65. Bae, S., Belarbi, A., **Myers, J.J.**, "Performance of Corrosion-Damaged RC Columns Repaired by CFRP Sheets," American Concrete Institute Special Publication-230, November 2005, pp. 1447-1464.
- J66. Ekenel, M., **Myers, J.J.**, "Durability Performance of Bridge Concretes, Part I: High Performance Concrete (HPC)," Journal of ASTM International (JAI), West Conshohocken, PA, Volume 2, Issue 7, July/August 2005, 14 pages.
- J67. Ekenel, M., **Myers, J.J.**, "Durability Performance of Bridge Concretes, Part II: High Strength Concrete (HSC)," Journal of ASTM International (JAI), West Conshohocken, PA, Volume 2, Issue 7, July/August 2005, 12 pages.
- J68. Akuthot, B., Hughes, D., Zoughi, R., **Myers, J.J.**, Nanni, A., "Near-Field Microwave Detection of Disbond in Fiber Reinforced Polymer Composites Used for Strengthening Concrete Structures and Disbond Repair Verification," American Society of Civil Engineering – Journal of Materials in Civil Engineering, November/December 2004, pp 540-546.
- J69. **Myers, J.J.**, Belarbi, A. El-Domiaty, K.A., "Blast Resistance of Un-reinforced Masonry Walls Retrofitted with Fiber Reinforced Polymers," The Masonry Society Journal, Boulder, Colorado, Vol.22, No.1, September 2004, pp 9-26.

- J70. Yang, Y., **Myers, J.J.**, "Live Load Test Results of Missouri's First High Performance Concrete Superstructure Bridge," National Research Council, Transportation Research Record – Journal of the Transportation Research Board, No. 1845, Design of Structures 2003, Washington D.C., October 2003, pp. 96-103.
- J71. **Myers J.J.**, Yang Y., "Practical Issues for the Application of High Performance Concrete to Highway Structures," American Society of Civil Engineering – Journal of Bridge Engineering, Vol. 6, No. 6, November/December 2001, pp. 613-627.
- J72. **Maerz, N.H.**, Nanni, A., **Myers, J.J.**, Galecki, G., "Laser Profilometry for Concrete Substrate Characterization Prior to FRP Laminates Application," International Concrete Repair Institute, Concrete Repair Bulletin, Vol. 14, No. 1, March / April 2001.
- J73. **Myers, J.J.**, "Permeability Performance of High Performance Concrete Subjected to Various Curing Regimes," National Research Council, Transportation Research Record – Journal of the Transportation Research Board, Washington D.C., No. 1775, Concrete 2001, pp. 77-89.
- J74. **Maerz, N.H.**, Chepeur, C., **Myers, J.J.**, Linz, J., "Concrete Roughness Characterization Using Laser Profilometry for Fiber-Reinforced Polymer Sheet Application," National Research Council, Transportation Research Record – Journal of the Transportation Research Board, Washington D.C., No. 1775, Concrete 2001, pp. 132-139.
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- TX1. Rossini, M., **Myers, J.J.**, Nanni, A., "A Practical Guide to Achieving Durable Concrete Structures Through Design, Construction, and Testing" Chapter X Author: "Fibre-reinforced Polymer (FRP) Reinforcement," ICE Handbook of Concrete Durability, 2<sup>nd</sup> Edition, Add Publishing Company, City, State, 2019, ISBN xxx-x-xxx-xxxx-x, pp 1-24. Submitted January, 2019, **TEXTBOOK CHAPTER AUTHOR, UNDER REVIEW.**
- TX2. Carey, N.L., **Myers, J.J.**, "Dynamic Behavior of Materials, Volume 1: Chapter 53 – Blast Testing of Three Types of Panels with External Strengthening Systems," Springer Publishing Company, New York, NY, 2013, ISBN 978-1-4614-4237-0, pp 417-424. **TEXTBOOK CHAPTER AUTHOR.**
- TX3. **Myers, J.J.**, Holdener, D., Merkle, W., "Load Testing and Load Distribution of Fiber Reinforced Polymer Strengthened Bridges: Multi-Year Post Construction / Post Retrofit Performance Evaluation," Chapter 9, FRP Composites and Sustainability: Focusing on Innovation, Technology Implementation and Sustainability, Springer Publishing Company, NY, New York, 2012, ISBN 978-94-007-2356-6, pp. 163-191. **TEXTBOOK CHAPTER AUTHOR.**
- TX4. Moyo, P., Ooi, P., Zhai, E. and **Myers, J.J.**, Editors, "Design, Construction, Rehabilitation and Maintenance of Bridges (GSP 219)," American Society of Civil Engineers (ASCE), 2011, ISBN: 978-1-61782-996-3, 197 pp. **TEXTBOOK EDITOR.**
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- TX7. **Myers, J.J.**, Nanni, A. "Tenth North American Masonry Conference Technical Proceedings," Omnipress Publishing, Madison, Wisconsin, Published June 2007, ISBN 1-929081-26-X, 1137 pp. **TEXTBOOK EDITOR.**
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### PEER REVIEWED PUBLISHED INTERNATIONAL CONFERENCE PROCEEDINGS

- C1. Al-Khafaji, A.F., **Myers, J.J.**, Alghazali, H.H., "GFRP's Bond-Slip Evaluation in Conventional and High Volume Fly Ash Concrete," 7<sup>th</sup> Asia-Pacific Conference on FRP in Structures (APFIS-2019), Surfers Paradise, Gold Coast, Australia, December 10-13, 2019. Abstract Submitted.
- C2. Hernandez, E.S., Janke, M., **Myers, J.J.**, "Load Testing and Strengthening of Bridge P0058 Using Fiber Reinforced Cementitious Materials," 14<sup>th</sup> Fiber Reinforced Polymer Reinforced Concrete Structures (FRPRCS-14), Belfast, Ireland, UK, June 4-7, 2019. Abstract Submitted.
- C3. Aljazeera, Z.R., **Myers, J.J.**, "Fatigue Performance of FRCM Strengthened RC Beams Subjected to Environmental Exposure and Varied Fatigue Frequencies," 14<sup>th</sup> Fiber Reinforced Polymer Reinforced Concrete Structures (FRPRCS-14), Belfast, Ireland, UK, June 4-7, 2019. Abstract Submitted.
- C4. Aljazeera, Z.R., **Myers, J.J.**, "Flexural Evaluation of RC One-Way Slabs Strengthened with Different Composite Materials," 14<sup>th</sup> Fiber Reinforced Polymer Reinforced Concrete Structures (FRPRCS-14), Belfast, Ireland, UK, June 4-7, 2019. Abstract Submitted.
- C5. Al-Khafaji, A.F., **Myers, J.J.**, Alghazali, H.H., "Bond-Slip Performance of Glass Fiber Bars Embedded in Conventional and High Volume Fly Ash Concrete," 14<sup>th</sup> Fiber Reinforced Polymer Reinforced Concrete Structures (FRPRCS-14), Belfast, Ireland, UK, June 4-7, 2019. Abstract Submitted.
- C6. Aljazeera, Z.R., **Myers, J.J.**, "Fatigue Performance of FRCM Strengthened RC Beams Subjected to Environmental Exposure and Varied Fatigue Frequencies," 5<sup>th</sup> International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2019), Potsdam, Germany, August 27-29, 2019. Abstract Submitted.
- C7. Al-Khafaji, A.F., **Myers, J.J.**, "Durability Evaluation of Embedded GFRP Rebars in Concrete Bridges after More Than Ten Years of Service," 5<sup>th</sup> International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2019), Potsdam, Germany, August 27-29, 2019. Abstract Submitted.
- C8. Al-Jaberi, Z., **Myers, J.J.**, "Direct Service Temperature Exposure Effects on the Bond Behavior between Advanced Composites and CMU," Modeling, Testing, Design, Control and Health Monitoring of Masonry Structures Conference (MuRiCo6 2019), Bologna, Italy, June 26-28, 2019. Abstract Submitted.
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- C10. Al-Jaberi, Z., **Myers, J.J.**, "Simplified Method for Predicting Flexural Behavior of Reinforced Masonry Walls Strengthened with FRP," 13<sup>th</sup> North American Masonry Conference (13NAMC 2019), Salt Lake City, Utah, June 16-19, 2019. Paper Submitted.
- C11. Janke, M., Hernandez, E., **Myers, J.J.**, Nanni, A. "Design and Installation of Cement Based Composite Technologies in the Strengthening of Missouri Bridge P0058," Bridge Engineering Institute Conference (BEI 2019), Honolulu, Hawaii, July 22-25, 2019. Abstract Accepted.
- C12. Hernandez, E., **Myers, J.J.** "Experimental and Analytical Capacity Evaluation Before Strengthening of Missouri Bridge P0058," Bridge Engineering Institute Conference (BEI 2019), Honolulu, Hawaii, July 22-25, 2019. Abstract Accepted.
- C13. Al-Khafaji, A.F., **Myers, J.J.**, "Durability Assessment of Non-steel Reinforcement after More Than Ten Years of Service," 7<sup>th</sup> International Conference on Structural Engineering, Mechanics and Computation (SEMC 2018), Cape Town, South Africa, September 2-4, 2018. Abstract Accepted. **INVITED CONFERENCE PAPER**
- C14. Al-Jaberi, Z.K., **Myers, J.J.**, "Effect of Different Temperatures on Epoxy Adhesive Used in Near Surface Mounted FRP Bars Strengthened Concrete Masonry Unit Under Direct Shear Test," 7<sup>th</sup> International Conference on Structural Engineering, Mechanics and Computation (SEMC 2018), Cape Town, South Africa, September 2-4, 2018. Abstract Accepted. **INVITED CONFERENCE PAPER**
- C15. Alghazali, H.H., Al-Jaberi, Z.K., Aljazeera, Z.R., **Myers, J.J.**, "Flexural performance of Extremely Damaged Reinforced Concrete Beams after SRP Repair," 7<sup>th</sup> International Conference on Structural Engineering, Mechanics and Computation (SEMC 2018), Cape Town, South Africa, September 2-4, 2018. Abstract Accepted. **INVITED CONFERENCE PAPER**
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- C20. Al-Jaberi, Z., Myers, J.J., ElGawady, M.A., "Out-of-plane Behavior of RM Walls Strengthened with FRCM Composite or NSM with Cementitious Adhesive," 9<sup>th</sup> International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2018), Paris, France, July 17-19, 2018, 7 pages.
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- C22. Alghazali, H.H., Myers, J.J., "In-service Stress and Strain Behavior of Missouri Bridge A7957," 9<sup>th</sup> International Conference on Bridge Maintenance, Safety, and Management (IABMAS 2018), Melbourne, Australia, July 9-13, 2018, 11 pages.
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- C24. Wang, W., Gooranorimi, O., Myers, J.J., Nanni, A. "Microstructure and mechanical Property Behavior of FRP Reinforcement Autopsied from Bridge Structures Subjected to In-situ Exposure," 16<sup>th</sup> International Congress on Polymers in Concrete 2018 (ICPIC 2018), Washington, DC, Apr. 29 – May 1, 2018, 6 pages.
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- C30. Rallabhandhi, S., Myers, J.J., "Non-Prestressed Bridge deck-girder composite with End-Girder Continuity Detail using Ultra High Performance Concrete (UHPC) within the End Connection," 3<sup>rd</sup> International Symposium on Ultra-High Performance Fibre-Reinforced Concrete (UHPFRC 2017), Montpellier, France, October 2-4, 2017, Published, 8 pages.
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- C32. Hernandez, E., Myers, J.J., "Dynamic Load Allowance of a Prestressed Concrete Bridge through Field Load Tests," 4<sup>th</sup> International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2017), Zurich, Switzerland, September 13-15, 2017, Published, 8 pages.
- C33. Aljaberi, Z., Myers, J.J., ElGawady, M.E., "Effectiveness of FRCM System in Strengthening Reinforced Masonry Walls Subjected to Cyclic Loading," 39<sup>th</sup> International Association for Bridge & Structural Engineering (IABSE 2017), Vancouver, British Columbia, Canada, September 19-23, 2017, Published, 9 pages.
- C34. Aljazaeri, Z.R., Alghazali, H.H., Myers, J.J., "Flexure Performance of Two-Way Concrete Slabs Reinforced with Carbon Fiber Grid," 39<sup>th</sup> International Association for Bridge & Structural Engineering (IABSE 2017), Vancouver, British Columbia, Canada, September 19-23, 2017, Published, 10 pages.
- C35. Aljazaeri, Z.R., Janke, M., Myers, J.J., "Experimental Investigation on Anchorage Systems for Enhancing the Mechanical Performance of FRCM Composites in Retrofitting RC Structural Beams," 8<sup>th</sup> International Conference on Advanced Composites in Construction (ACIC 2017), University of Sheffield, Sheffield, England, UK, September 5-7, 2017, Published, 6 pages.
- C36. Wang, W., Myers, J.J., "Flexural Behavior of GFRP Reinforced Panels with Varying Reinforcement Ratios after Long-term Filed Exposure," 8<sup>th</sup> International Conference on Advanced Composites in Construction (ACIC 2017), University of Sheffield, Sheffield, England, UK, September 5-7, 2017, Published, 6 pages.
- C37. Aljazaeri, Z.R., Myers, J.J., "Environmental Effects on the Durability Performance of FRCM Composite Bonded to Concrete," 5<sup>th</sup> International Conference on Durability of Fibre Reinforced Polymer (FRP) Composites for



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- C41. Aljaberi, Z., **Myers, J.J.**, ElGawady, M.E., “Performance of Reinforced Masonry Walls Strengthened with FRP Composite Exposed to Harsh Environmental Conditions,” 13<sup>th</sup> Canadian Masonry Symposium (13 CMS), Halifax, Nova Scotia, Canada, June 4-7, 2017, Published, 7 pages.
- C42. Aljaberi, Z., **Myers, J.J.**, ElGawady, M.E., “Seismic Performance of Reinforced Masonry Walls Strengthened with FRMC Subjected to Cyclic Loading,” 13<sup>th</sup> Canadian Masonry Symposium (13 CMS), Halifax, Nova Scotia, Canada, June 4-7, 2017, Published, 12 pages.
- C43. Alghazali, H.H., Myers, J.J., “Evaluation of Prestress Losses for Bridge A7957 Constructed with High Strength Concrete (Field Study),” 2017 PCI Convention and National Bridge Conference, Cleveland, OH, Mar. 2-4, 2017, 10 pages.
- C44. Hernandez, E., Myers, J.J., “Initial Response of a Prestressed Self-Consolidating Concrete (SCC) Bridge Using Diagnostic Load Tests,” 5<sup>th</sup> International Symposium on Life-Cycle Civil Engineering (IALCCE 2016), Delft, The Netherlands, 2017, pp 1072-1079.
- C45. Aljaberi, Z., **Myers, J.J.**, “Contribution of Externally Bonded FRP to Flexural Capacity of Reinforced Masonry Walls Subjected to Out-Of-Plane Load,” 8<sup>th</sup> International Conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering (CICE-16), Hong Kong, China, December 14-16, 2016, 6 pages.
- C46. Wang, W., **Myers, J.J.**, “Assessment of Existing FRP Bridge Structures Exposed to Field Conditioning,” 8<sup>th</sup> International Conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering (CICE-16), Hong Kong, China, December 14-16, 2016, 6 pages.
- C47. Aljazeera, Z., **Myers, J.J.**, “Durability Performance of FRMC Composite Bonded to Concrete Under Different Environmental Ageing Conditions,” 8<sup>th</sup> International Conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering (CICE-16), Hong Kong, China, December 14-16, 2016, 8 pages.
- C48. Gheni, A.A., ElGawady, M.E., Myers, J.J., “Energy Efficiency Masonry Units using Sustainable Techniques,” 6<sup>th</sup> International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016), Cape Town, South Africa, September 5-7, 2016. 6 pages.
- C49. Aljaberi, Z., **Myers, J.J.**, ElGawady, M.E., “Flexural Behavior of GFRP Reinforced Panels after Long-term Field Exposure,” 6<sup>th</sup> International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016), Cape Town, South Africa, September 5-7, 2016. 6 pages. **INVITED CONFERENCE PAPER**
- C50. Wang, W., **Myers, J.J.**, “Microstructure Analysis of GFRP Reinforcing Bars Embedded in Concrete,” 6<sup>th</sup> International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016), Cape Town, South Africa, September 5-7, 2016. 5 pages. **INVITED CONFERENCE PAPER**
- C51. Aljaberi, Z., **Myers, J.J.**, ElGawady, M.E., “Flexural Capacity of Out-of-Plane Reinforced Masonry Walls Strengthened with Externally Bonded (EB) FRP,” 7<sup>th</sup> International Conference on Advanced Composite Materials in Bridges and Structures (VII ACMBs), Vancouver, British Columbia, Canada, August 22-24, 2016, 6 pages.
- C52. Aboelseoud, M.A., **Myers, J.J.**, “Hybrid Composite Beam (HCB) Bridges’ Performance in Alkaline and Saline Environments,” 7<sup>th</sup> International Conference on Advanced Composite Materials in Bridges and Structures (VII ACMBs), Vancouver, British Columbia, Canada, August 22-24, 2016, 6 pages.
- C53. Aljazeera, Z.R., **Myers, J.J.**, “Strengthening of Reinforced Concrete One-way Slabs for Flexure using Composite Materials: Evaluation of Different Composite Materials,” 4<sup>th</sup> International Conference on Sustainable Construction Materials and Technologies (SCMT4), Las Vegas, Nevada, Aug. 7-11, 2016, 11 pages. **OUTSTANDING CONFERENCE PAPER AWARD**
- C54. Alghazali, H.H., **Myers, J.J.**, “Fracture Behavior of High Volume Fly Ash-Self Consolidating Concrete,” 4<sup>th</sup> International Conference on Sustainable Construction Materials and Technologies (SCMT4), Las Vegas, NV, August 7-11, 2016, 10 pages.
- C55. Rallabhandhi, S., **Myers, J.J.**, “UHPC in Non-Prestressed Reinforced Concrete (RC) Continuous Girder Sections for Bridge Elements,” 1<sup>st</sup> International Interactive Symposium on Ultra High Performance Concrete (UHPC 2016), Des Moines, Iowa, July 20, 2016, 8 pages.
- C56. Gora Venancio, V., **Myers, J.J.**, “Behavior of Ultra-High Performance Concrete Bridge Deck Panels Compared to Conventional Stay-In-Place Deck Panels,” 1<sup>st</sup> International Interactive Symposium on Ultra High Performance Concrete (UHPC 2016), Des Moines, Iowa, July 20, 2016, 8 pages.
- C57. Aljaberi, Z., Gheni, A., **Myers, J.J.**, ElGawady, M.A. “Ability to Resist Different Weathering Actions of Eco-Friendly Wood Fiber Masonry Blocks,” 2016 16<sup>th</sup> International Brick and Block Masonry Conference, Padova, Italy, June 26-30, 2016, 6 pages.

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- C59. **Hernandez, E., Myers, J.J.**, “Monitoring the Initial Service Response of a Prestressed Self-Consolidating Concrete (SCC) Bridge,” 6<sup>th</sup> North American Conference on Design and Use of Self-Consolidating Concrete (2016 SCC Conference), Washington, DC, USA, May 15-18, 2016, 10 pages. **INVITED CONFERENCE PAPER**
- C60. **Hernandez, E., Myers, J.J.**, “Field Load Test and Girder Distribution Factors of Missouri Bridge A7957,” 2016 PCI Convention and National Bridge Conference, Nashville, TN, Mar. 1-5, 2016, 12 pages.
- C61. Alghazali, H.H., **Myers, J.J.**, “Creep and Shrinkage of Ecological Self-Consolidating Concrete,” 2<sup>nd</sup> International Conference on Performance-based Lifecycle Structural Engineering (PLSE 2015), Brisbane, Australia, Dec. 9-11, 2015, 9 pages.
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- C69. Hernandez, E., **Myers, J.J.**, “In-Situ Field Test and Service Response of Missouri Bridge A7957,” 16<sup>th</sup> European Bridge Conference (ECB16), Edinburgh, Scotland, UK, June 23-25, 2015, 10 pages.
- C70. Alghazali, H.H., **Myers, J.J.**, “Monitoring of Total Prestress Losses in the High Strength Self-Consolidating Concrete Girders of Bridge A7957, MO, USA Using VWSGs: Field Study,” 16<sup>th</sup> European Bridge Conference (ECB16), Edinburgh, Scotland, UK, June 23-25, 2015, 10 pages.
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- TR65. Carney, P., **Myers, J.J.**, (2003) *“Static and Blast Resistance of FRP Strengthened Connections for Unreinforced Masonry Walls,”* Center for Infrastructure Engineering Studies,” Report Number 03-46, University of Missouri-Rolla, Rolla, Missouri, June 2003.
- TR66. Koenigsfeld, D., **Myers, J.J.**, (2003) *“Secondary Reinforcement for Fiber Reinforced Polymer Concrete Panels,”* Center for Infrastructure Engineering Studies,” Report Number 03-45, University of Missouri-Rolla, Rolla, Missouri, June 2003.
- TR67. Gurung, I., **Myers, J.J.**, (2003) *“Shrinkage Behavior of High-Strength Concrete Subjected to Accelerated Curing and Volume to Surface Area Ratio,”* Center for Infrastructure Engineering Studies,” Report Number 03-45, University of Missouri-Rolla, Rolla, Missouri, June 2003.
- TR68. **Myers, J.J.**, Shen, X., (2002) *“Effect of Surface Roughness and Putty Thickness on the Bond Performance of FRP Laminates,”* Center for Infrastructure Engineering Studies,” Report Number 03-41, University of Missouri-Rolla, Rolla, Missouri, October 2002.
- TR69. **Myers, J.J.**, Shen, J., (2002) *“The Influence of Surface Area-To-Volume And Accelerated Curing on the Quality Control of High Strength Concrete,”* Center for Infrastructure Engineering Studies,” Report Number 03-39, University of Missouri-Rolla, Rolla, Missouri, September 2002.
- TR70. **Myers, J.J.**, Yang, Y. *“Interim Report for High Performance Concrete for Bridge A6130,”* Center for Infrastructure Engineering Studies,” Report Number 02-30, University of Missouri-Rolla, Rolla, Missouri, September 2002.
- TR71. Murthy, S., **Myers, J.J.**, *“Durability Report of Externally Strengthened FRP Concrete,”* Center for Infrastructure Engineering Studies,” Report Number 03-40, University of Missouri-Rolla, Rolla, Missouri, March 2002.
- TR72. El-Domiaty, K.A., **Myers, J.J.**, Belarbi, A. *“Blast Resistance of Un-reinforced Masonry Walls Retrofitted with Fiber Reinforced Polymers,”* Center for Infrastructure Engineering Studies, Draft Report Number 02-28, University of Missouri-Rolla, Rolla, Missouri, March 2002.
- TR73. Pulyadi, S., Belarbi, A., **Myers, J.J.**, *“Performance of CFRP Sheet Strengthened Reinforced Concrete Beams In The Presence of Delamination and Lap Splice,”* Center for Infrastructure Engineering Studies, Draft Report Number 02-26, University of Missouri-Rolla, Rolla, Missouri, February 2002.
- TR74. Bae, S.W., Belarbi, A., Watkins, S., **Myers, J.J.**, *“A Field Study on Delamination of CFRP Laminates and Fiber Optic Sensor Application on Bridge A3050,”* Department of Civil Engineering, University of Missouri-Rolla, Rolla, Missouri, July 2001.
- TR75. Micelli, F., **Myers, J.J.**, Murthy, S., *“Durability of Concrete Cylinders Wrapped with GFRP and CFRP,”* Center for Infrastructure Engineering Studies, Report Number 00-23, University of Missouri-Rolla, Rolla, Missouri, June 2001.
- TR76. **Myers, J.J.**, *“Instrumentation Plan for High Performance Concrete Bridge A6130 – Route 412 Pemiscot County, Missouri,”* Center for Infrastructure Engineering Studies, Report Number 00-21, University of Missouri-Rolla, Rolla, Missouri, May 2001.
- TR77. Maerz, N., **Myers, J.J.**, *“Final Technical Report: Development of a Prototype Imaging Concrete Roughness Measurement Device,”* Center for Infrastructure Engineering Studies, Report Number 00-20, University of Missouri-Rolla, Rolla, Missouri, April 2001.
- TR78. **Myers, J.J.**, Gopalaratnam, V., Nanni, A., Stone, D., Earney, T.P., *“Precast I-girder Cracking: Causes and Design Details,”* Center for Infrastructure Engineering Studies and Missouri Department of Transportation Research, Development, and Technology Report Number 00-06, January 2001.
- TR79. Chepur, P., Maerz, N., **Myers, J.J.**, *“Concrete Roughness Profile Characterization Using Laser Profilometry for Improved Bond Strength with Fiber Reinforced Polymers,”* Center for Infrastructure Engineering Studies, Report Number 00-19, University of Missouri-Rolla, Rolla, Missouri, June 2000.
- TR80. **Myers, J.J.**, Nanni, A. Stone, D., *“Investigation of Cracking In Continuous Prestressed Concrete I-Girder Bridges,”* Center for Infrastructure Engineering Studies, Report Number 00-18, University of Missouri-Rolla, Rolla, Missouri, March 2000.
- TR81. Huang, P.C., Nanni, A., **Myers, J.J.**, *“Dapped-End Strengthening of Precast Prestressed Concrete Double Tee Beams with FRP Composites,”* Center for Infrastructure Engineering Studies, Report Number 99-15, University of Missouri-Rolla, Rolla, Missouri, December 1999.
- TR82. Tumialan, J.G., **Myers, J.J.**, Nanni, A., *“Field Evaluation of Masonry Walls Strengthened with FRP Composites at the Malcolm Bliss Hospital,”* Center for Infrastructure Engineering Studies, Report Number 99-12, University of Missouri-Rolla, Rolla, Missouri, December 1999.
- TR83. Annaiah, R., **Myers, J.J.**, Nanni, A., *“In-Situ Shear and Flexure Strengthening of Reinforced Concrete Members with Advanced Composites,”* Center for Infrastructure Engineering Studies, Draft Report Number 99-11, University of Missouri-Rolla, Rolla, Missouri, December 1999.



- TR84. **Myers, J.J.**, Carrasquillo, R.L., *"The Production and Quality Control of High Performance Concrete in Texas Bridge Structures,"* Center for Transportation Research, Preliminary Report Number 580-589-1, November 1999.
- TR85. Annaiah, R., Nanni, A., **Myers, J.J.**, *"In-Situ Shear and Flexure Strengthening of Reinforced Concrete Beams with Composites,"* Center for Infrastructure Engineering Studies, Report Number 99-09, June, 1999.
- TR86. **Myers, J.J.**, *"Evaluation of Confined Lap-Splice Connection for Precast Construction,"* Master's Thesis, Department of Civil Engineering, The University of Texas at Austin, Austin, Texas, May 1994.

## CONTRACTS AND GRANTS SUMMARY

### AWARDED – SCHOLARLY

Co-PI (10%) "Preparing Interdisciplinary Professional for Rebuilding/Engineering Resilient Infrastructure of the Nation," U.S. Dept. of Education, August 2019 to July 2022; \$248,750, Year 1 Award, Total over 3 years expected \$746,250. PI: M. Abdelrahman, Co-PI: J. Burken, X.B. Hu, J. Liu, H. Ma, X. Zhang.

PI (100%) *"Durability of GFRP Bar Reinforcement Extracted from In-service Concrete Structures,"* U.S. Dept. of Transportation, June 2017 to June 2018; \$63,862.

PI (100%) "Strengthening and Repair of Structural Concrete with a Fabric-reinforced-cementitious-matrix (FRCM): Phase II Laboratory Studies and Field Implementation," U.S. Dept. of Transportation, June 2017 to June 2018; \$95,794.

PI (25%) "GAANN Program for Doctoral training in Civil Infrastructure Condition Assessment, Sustainability, and Resiliency," U.S. Dept. of Education, Sept 2016 to August 2019; \$246,140, Year 1 Award, Total over 3 years \$738,195. Co-PI: M. ElGawady, L. Sneed, G. Yan, G. Chen.

PI (100%) "Ultra-high Performance Fiber-Reinforced Concrete (UHPFRC) for Infrastructure Rehabilitation," U.S. Dept. of Transportation, June 2014 to June 2017; \$96,247.

PI (100%) "Strengthening and Repair of Structural Concrete with a Fabric-reinforced-cementitious-matrix (FRCM): Laboratory Studies and Field Implementation," U.S. Dept. of Transportation, June 2014 to June 2017; \$96,247.

Co-PI (12%) *"UTC Tier 1: Research on Concrete Applications for Sustainability Transportation (RE-CAST),"* U.S. Dept. of Transportation, PI: K. Khayat; June 2014 to September 2017; \$1,402,200.

Co-PI (12%) *"UTC Tier 1: Research on Concrete Applications for Sustainability Transportation (RE-CAST),"* PI: K. Khayat; U.S. Dept. of Transportation, November 2013 to September 2017; \$1,414,100.

Co-PI (10%) *"Quantifying Economic Benefits for Rail Infrastructure Projects,"* Missouri Dept. of Transportation, PI: S. Long; August 2013 to November 2014; \$59,656.

Co-PI (10%) *"Quantifying Economic Benefits for Rail Infrastructure Projects,"* MATC, University of Nebraska, PI: S. Long; July 2013 to November 2014; \$29,800.

PI (100%) *"Implementation of RFID Sensors for Monitoring of Bridge Deck Corrosion in Missouri,"* US Dept. of Transportation, May 2013 to December 2013; \$16,052.

PI (80%) *"Long-term Behavior of GFRP Reinforced Panels After Eight Years of Field Exposure,"* US Dept. of Transportation, May 2013 to December 2013; \$16,052.

Co-PI (50%) *"The NASP Bond Test as a Predictor of Strand Bond, Transfer Length, and Development Length,"* US Dept. of Transportation, PI: J. Volz; January 2013 to May 2013; \$10,000.

PI (55\*/100%) *"Self-Consolidating Concrete (SCC) and High Volume Fly Ash Concrete (HVFAC) for Infrastructure Elements: Implementation,"* Missouri Dept. of Transportation, October 2012 to January 2017; \$197,943.

PI (55\*/100%) *"High-Strength Self-Consolidating Concrete (HS-SCC) and High Volume Fly Ash Concrete (HVFAC) for Infrastructure Elements: Implementation,"* Missouri Dept. of Transportation, October 2012 to June 2014; \$129,943.

PI (100%) *"Awareness and Localization of Explosive-Related Threats-Blast Mitigation Structural Evaluation,"* Northeastern University – Department of Homeland Security; December 2011 – June 2013; \$60,000.

PI (100%) *"Field Evaluation of Hybrid-Composite Girder Bridges in Missouri,"* Missouri Dept. of Transportation, July 2011 to June 2014; Total \$106,420; MST \$59,425.

PI (100%) *"NUTC/Field Evaluation of Hybrid-Composite Girder Bridges in Missouri,"* Missouri Dept. of Transportation, July 2011 to June 2014; \$59,425.

PI (100%) *"Field Evaluation of Alternative and Cost Efficient Bridge Approach Slabs,"* Missouri Dept. of Transportation, February 2011 to May 2013; \$48,173.

PI (100%) *"NUTC/Field Evaluation of Alternative and Cost Efficient Bridge Approach Slabs,"* US Dept. of Transportation, February 2011 to May 2013; \$23,057.

Co-PI (50.0%) *"Method in Evaluating the NASP Bond Test as a Replacement or the Mustafa Method in Evaluating Strand Bond,"* Precast/Prestressed Concrete Institute, PI: J. Volz, May 2011 to Dec. 2012; \$20,000.

Co-PI (50.0%) *"NUTC/Method in Evaluating the NASP Bond Test as a Replacement or the Mustafa Method in Evaluating Strand Bond,"* US Dept. of Transportation, PI: J. Volz; May 2011 to Dec. 2012; \$10,000.

PI (52.5%) *"Self-Consolidating Concrete for Infrastructure Elements,"* Missouri Dept. of Transportation, Co-PI: J. Volz; October 2010 to July 2012; \$120,000.

PI (52.5%) *"NUTC/Self-Consolidating Concrete for Infrastructure Elements,"* US Dept. of Transportation; Co-PI: J. Volz; October 2010 to July 2012; \$60,000.

PI (100%) *"Awareness and Localization of Explosive-Related Threats-Blast Mitigation Structural Evaluation,"* Northeastern University – Department of Homeland Security; November 2010 – June 2013; \$121,352.

Co-PI (46.7%) *"Awareness and Localization of Explosive-Related Threats-Technology Transfer,"* Northeastern University – Department of Homeland Security; October 2010 – June 2011; PI: J. Baird, \$21,342.

Co-PI (35%) *"NUTC/Design and Evaluation of High-Volume Fly Ash (HVFA) Concrete Mixes,"* US Dept. of Transportation, December 2010 to September 2012; PI: J. Volz, Co-PI: D. Richardson, \$50,000.

Co-PI (35%) *"Design and Evaluation of High-Volume Fly Ash (HVFA) Concrete Mixes,"* Missouri Dept. of Transportation, December 2010 to September 2012; PI: J. Volz, Co-PI: D. Richardson, \$100,000.

PI (100%) *"IED Crater Repair for Enduring Route Remediation,"* Leonard Wood Institute, Total Project Budget: \$473,726, Missouri S&T (Prime) Budget: \$323,726, Awarded August 2009 to February 2011.

Co-PI (45%) *"Roadside Explosive Hazard Indicator and Deterrent System (REHIDS),"* Leonard Wood Institute, \$150,000; PI: (\$80K), M. Van-De-Mark; Co-PI's: (\$70K), J. Myers; October 2009 to November 2010.

Co-PI (15%) *"Graduate Assistance in Areas of National Need Fellowship Program for Doctoral Training in Civil Infrastructure Engineering,"* \$387,165; Awarded August 2009 to August 2012; PI: R. Luna Co-PI: C. Mendoza, G. Chen, R. Stephenson, J. Martin.

PI (100%) *"Innovative Concrete Bridging Systems for Pedestrian Bridges: Implementation and Monitoring,"* City Of Rolla, Rolla, Missouri, \$54,999; Awarded November 2008 to June 2013.

PI (100%) *"Innovative Concrete Bridging Systems for Pedestrian Bridges: Implementation and Monitoring,"* National University Transportation Center and MoDot Project Match, \$165,000; Awarded November 2008 to June 2013. (Other contributing project match City of Rolla cash match \$54,999, City of Rolla match engineering / in-kind services \$87,000, Hughes Brothers match material donation \$2,733, MoDot match construction \$260,000)

PI (100%) *"Structural Steel Coating for Corrosion Mitigation"* Missouri Department of Transportation, \$181,955; Awarded September 2008 to August 2010.

PI (100%) *"Structural Steel Coating for Corrosion Mitigation"* National University Transportation Center, \$75,972; Awarded September 2008 to August 2010.

PI (100%) *"American Concrete Institute 2008 Fall Conference: Sponsorship and Student Training,"* National University Transportation Center, \$20,769; Awarded August 2008 to June 2009.

Co-PI (23%) *"ALERT (Awareness and Localization of Explosives-Related Threats) Center of Excellence,"* Boston University-Department of Homeland Security, \$150,000 and \$85,001; Awarded July 2008 to June 2010, PI: J. Baird; Co-PI: S. Frimpong

Co-PI (50%) *"Design, Development and Analytical Modeling of Systems to Protect Structures from Blasting Loading,"* Air Force Research Laboratory (AFRL) Tyndall, FL, \$1,049,993; Awarded – Apr. 2007 to March 2009; PI: J. Baird.

Co-PI (5%) *"Industry/University Cooperative Research Center,"* National Science Foundation (NSF), \$206,000; Awarded – Sept. 2006 to Sept. 2008; PI: A. Nanni Co-PI: N. Galati, P. Silva, G. Chen.

Co-PI (14%) *"Graduate Assistance in Areas of National Need Fellowship Program for Doctoral Training in Civil Infrastructure Engineering,"* \$206,000; Awarded June 2007 to May 2010; PI: A. Belarbi Co-PI: C. Mendoza, R. Luna, G. Chen, R. Stephenson, J. Martin.

PI (56%) *"International Research Experience for Students (IRES) in Emerging Construction Technologies"* National Science Foundation (NSF), \$147,423; Awarded May 2006 to July 2011; Co-PI: B. Schonberg, A. Belarbi, P. Silva, R. Hall.

Co-PI (16%) *"Industry/University Cooperative for Repair of Buildings and Bridges with Composites,"* Industry/University, Strongwell \$12,500; Awarded – Jan. 2006; PI: N. Galati; Co-PI: A. Nanni P. Silva, A. Ayoub, G. Chen.

Co-PI (16%) *"Industry/University Cooperative for Repair of Buildings and Bridges with Composites,"* Industry/University, Hughes Brothers \$15,000; Awarded – Dec. 2005; PI: N. Galati; Co-PI: A. Nanni P. Silva, A. Ayoub, G. Chen.

Co-PI (16%) *"Industry/University Cooperative for Repair of Buildings and Bridges with Composites,"* Industry/University, Torey \$25,000; Awarded – Nov. 2005; PI: G. Chen; Co-PI: A. Nanni P. Silva, A. Ayoub, N. Galati.

Co-PI (16%) *"Industry/University Cooperative for Repair of Buildings and Bridges with Composites,"* Industry/University, Structural Preservation Systems \$25,000; Awarded – Nov. 2005; PI: P. Silva; Co-PI: A. Nanni G. Chen, A. Ayoub, N. Galati.

Co-PI (20%) *"Blast Mitigation for Civil Structures,"* Air Force Research Laboratory (AFRL), \$1,122,964; Awarded – Aug. 2005; PI: J. Baird.

PI (100%) *"Economic Development Administration Timber Investment Project: Fly Ash-Wood Fiber Optimization,"* Missouri Enterprise Business Assistance Center, \$55,267; Awarded – Nov. 2004.

Co-PI (40%) *"Economic Development Administration Timber Investment Project,"* Missouri Enterprise Business Assistance Center, \$182,430; Awarded – Nov. 2004; PI: K. Ragsdell, Co-PI: V. Allada.

PI (67%) *"Industry/University Cooperative for Repair of Buildings and Bridges with Composites,"* Industry/University, Hughes Brothers \$15,000; Awarded – Nov. 2004; Co-PI: P. Silva.

PI (20%) *"Industry/University Cooperative for Repair of Buildings and Bridges with Composites,"* Industry/University, Bondo Corporation \$25,000; Awarded – Nov. 2004; Co-PI: P. Silva, G. Chen.

Co-PI (10%) *"Industry/University Cooperative for Repair of Buildings and Bridges with Composites,"* Industry/University, Structural Preservation Systems \$25,000; Awarded – Nov. 2004; PI: A. Nanni; Co-PI: P. Silva, A. Ayoub, G. Chen.

Co-PI (40%) *"Industry/University Cooperative for Repair of Buildings and Bridges with Composites,"* Industry/University, Torey Carbon Fibers, America \$25,000; Awarded – Nov. 2004; PI: P. Silva; Co-PI: A. Nanni, G. Chen, A. Ayoub.

Co-PI (5%) "I/U CRC for Repair of Buildings and Bridges with Composites - RB2C: Continuing Grant," National Science Foundation \$85,000; Awarded September 2004.

Co-PI (10%) "UTC-Enhancing Student Awareness and Faculty Capabilities in Transportation," US Department of Transportation Proposal \$151,135.14; Awarded July 2004; July 1, 2004 – June 30, 2006.

PI (100%) "Dwight David Eisenhower Transportation Faculty Fellowship," National Highway Institute– \$3,190; UMR - \$829.40 Match; Total - \$4019.40; Awarded Jan. 2004.

PI (80%) "Strengthening of Bridge Beams using Fiber Reinforced Polymers (FRP)," Louisiana Department of Transportation; Collaborative Effort with Tulane University – \$12,500 UMR; Awarded September 2003; Project Total Project Award \$199,911; Co-PI: A. Nanni.

Co-PI (50%) "Structural Evaluation of RC Columns Retrofitted with FRP Wraps – Corrosion Testing," Industry/University, Missouri Department of Transportation \$22,597; Awarded – Aug. 2003; PI: A. Belarbi

Co-PI (33%) "Industry/University Cooperative for Repair of Buildings and Bridges with Composites," Industry/University, Owens Corning (Guelph) \$15,000; Awarded – Aug. 2003; PI: A. Nanni, Co-PI: P. Silva

Co-PI (33%) "Industry/University Cooperative for Repair of Buildings and Bridges with Composites," Industry/University, Hughes Brothers \$15,000; Awarded – Aug. 2003; PI: A. Nanni, Co-PI: P. Silva

Co-PI (7%) "University Transportation Center – Advanced Materials and Non-Destructive Testing Technologies," United States Department of Transportation; Submitted Nov. 2001; PI: A. Nanni, Co-PI: N. Anderson, A. Belarbi, K. Chandrashekhara, G. Chen, L. Dharani, V. Flannigan, G. Galecki, R. Hall, R. Luna, N. Maerz, H. Nystrom, D. Richardson, P. Silva, G. Spring, R. Stephenson, S. Watkins; \$906,000; Awarded August 2003.

Co-PI (33%) "Industry/University Cooperative for Repair of Buildings and Bridges with Composites," Industry/University, Hughes Brothers \$7,500; Awarded – Aug. 2003; PI: A. Nanni, Co-PI: P. Silva

PI (30%) "Preservation of Missouri Transportation Infrastructure: Preservation of Missouri Transportation Infrastructure – Validation of FRP Composite Technology Through Field Testing," US Department of Transportation \$412,872; Co-PI: A. Nanni; Awarded June 2003.

PI (100%) "Creep, Shrinkage and CTE Evaluation: Normal Strength Concrete Bridge Deck Companion Testing for an Adjacent HPC Bridge – RI00-002 Phase II," US Department of Transportation Proposal \$3,475; Awarded Jan. 2003.

PI (100%) "Creep, Shrinkage and CTE Evaluation: Normal Strength Concrete Bridge Deck Companion Testing for an Adjacent HPC Bridge – RI00-002 Phase II," Missouri Department of Transportation Proposal \$7,951; Awarded Mar. 2003.

Co-PI (20%) "Preservation of Missouri Transportation Infrastructure: Flexural Upgrade of Deficient Bridges with Composites," Missouri Department of Transportation Proposal \$1,179,458; PI: A. Nanni; Co-PI: R. Zoughi S. Watkins, N. Maerz, G. Galecki; Awarded Mar. 2003.

PI (100%) "Optimization of HPC for Missouri Bridge Structures," US Department of Transportation Proposal \$11,591; Awarded Jan. 2003.

Co-PI (5%) "University Transportation Center – Advanced Materials and Non-Destructive Testing Technologies," United States Department of Transportation; Submitted Nov. 2001; PI: A. Nanni, Co-PI: N. Anderson, A. Belarbi, S. Cardimona, K. Chandrashekhara, G. Chen, L. Dharani, V. Flannigan, G. Galecki, R. Hall, R. Luna, N. Maerz, H. Nystrom, D. Richardson, P. Silva, G. Spring, R. Stephenson, J. Tumialan, S. Watkins; \$906,000- Awarded August 2002.

Co-PI (70%) "Industry/University Cooperative for Repair of Buildings and Bridges with Composites," Industry/University, NSF \$50,000, US Department of Transportation Match \$24,000; Total Project - \$74,000; Awarded – Feb. 2001; PI: A. Nanni.

Projects undertaken as collaborator or lead with IUC RB<sup>2</sup>C – NSF Sponsored Center:

- ❖ "Malcolm-Bliss Building Strengthening and Evaluation, St. Louis, MO"
- ❖ "Blast Resistance of Un-reinforced Masonry Walls Retrofitted with Fiber Reinforced Polymers"
- ❖ "Out of Plane Flexural Behavior of FRP Strengthened Masonry Systems"
- ❖ "Secondary Reinforcement Requirements for FRP Reinforced Concrete"
- ❖ "Static and Blast Resistance of FRP Strengthened Connections for URM Walls"

Co-PI (50%) "Industry/University Cooperative for Repair of Buildings and Bridges with Composites," Industry/University, Toray Carbon Fibers America, Inc. \$15,000; Awarded – Nov. 2001; PI: A. Nanni.

Co-PI (33%) "JOINT MODOT-KDOT PROJECT: Evaluation of FRP Repair method For Cracked PC Bridge Members," MoDOT \$15,000, UTC \$5,000, UMR Match \$2,903; Awarded – March 2002; PI: A. Nanni, Co-PI: G. Tumialan.

Co-PI (33%) "FRP Concrete Repair Preparation and Characterization," National Science Foundation \$80,746, UMR Match \$26,570; Awarded – Oct. 2001; PI: N. Maerz, Co-PI: G. Galecki.

Co-PI (16.6%) "An Integrated Testing System for Civil Infrastructure," UM Board \$60,000; Awarded – Feb. 2002; PI: A. Belarbi, Co-PI: P. Silva, G. Chen, B. Schonberg, R. Laboube.

Co-PI (7%) "National Science Foundation Major Research Instrumentation Program: Acquisition of Integrated Testing System for Civil Construction Materials and Structures," NSF \$338,325; Awarded – Aug. 2001; PI: A. Belarbi, Co-PI: A. Nanni, P. Silva, G. Chen, W. Schonberg, R. LaBoube.

Co-PI (22.5%) "Doctoral Training in Civil Infrastructure Engineering," US Department of Transportation \$45,000; Awarded – July 2001; PI: A. Belarbi, Co-PI: R. Luna, R. Stephenson, R. Hall.

Co-PI (22.5%) "GAANN Application for Fellowship Program in Civil Infrastructure Engineering," US Department of Education \$409,500, UMR Match \$260,790, SOE UMR \$6,000; Awarded – June 2001; PI: A. Belarbi, Co-PI: R. Luna, R. Stephenson, R. Hall.

PI (50%) "Characterization of a New FRP Bar for Reinforcement of Concrete," US Department of Transportation \$10,000; Awarded – Dec. 2001; Co-PI: A. Nanni.

PI (50%) "Characterization of a New FRP Bar for Reinforcement of Concrete," Dow Chemical Company - \$10,000; Awarded – Dec. 2001; Co-PI: A. Nanni.

PI (100%) "High Performance Concrete for Bridge A6130 - Route 412 Pemiscot County," US Department of Transportation \$60,000; Awarded – June 2001.

PI (100%) "High Performance Concrete for Bridge A6130 - Route 412 Pemiscot County," Missouri Department of Transportation \$120,000, UMR Match - \$ 22,193; Awarded – Oct. 2000.

PI "Optimization of HPC for Missouri Bridge Structures," UM Research Board Proposal \$23,182; Awarded – Sept. 2000.

Co-PI (50%), "Construction and Long-Term Monitoring of a Concrete Box Culvert Bridge Reinforced with GFRP Bars," US Department of Transportation \$44,045; MoDOT \$17,775; City of Rolla \$11,000; Industry \$5,000; Awarded – Mar. 2000; Co-PI: A. Nanni.

Co-PI (Year 1 – 26%, Year 2&3 – 32%), "Construction Specifications and Inspection Process for Repair of Concrete Structures Using FRP Reinforcement," (Awarded – Disbursement Pending) Federal Highway Administration \$600,000; March 2000 – March 2003; Awarded – May 2000; PI: A. Nanni, Co-PI: N. Maerz, G. Galecki, S. Roy, A. Belarbi, S. Watkins.

PI (100%) "Strengthening of Bridge G270, Rt 32, Iron County, Missouri," US Department of Transportation \$2,000; Awarded – Aug. 2000.

Co-PI (25%) "Proposal for the Development of a Prototype Imaging Concrete Roughness Measurement Device," US Department of Transportation - \$10,500; Awarded – Aug. 2000; PI: N. Maerz, Co-PI: G. Galecki.

Co-PI (25%) "Proposal for the Development of a Prototype Imaging Concrete Roughness Measurement Device," American Concrete Institute - Concrete Research Council - \$10,500; Awarded – Aug. 2000; PI: N. Maerz, Co-PI: G. Galecki.

PI (100%) "The Influence of Surface Area to Volume Ratio on the Quality Control of High Performance Concrete," US Department of Transportation \$12,000; Awarded – Oct. 2000.

PI (100%) "The Influence of Surface Area to Volume Ratio on the Quality Control of High Performance Concrete," American Concrete Institute – Concrete Research Council - \$12,000; Awarded – Aug. 2000.

PI (60%) "Prestressed Concrete I-Girder Cracking - Phase II: Causes and Design Detail," US Department of Transportation \$30,746; Awarded – Aug. 2000; Co-PI: A. Nanni.

PI (100%) "Prestressed Concrete I-Girder Cracking - Phase II: Causes and Design Detail," Missouri Department of Transportation \$30,746; Awarded – Nov. 1999.

#### **AWARDED – ADMINISTRATIVE RELATED**

PI (100%) "National University Transportation Center for Transportation Infrastructure and Safety – Year 6," US DOT, \$3,239,900<sup>AB</sup>; Awarded June 2011 to December 2013.

<sup>AB</sup> Administrative Budget of Credit Received \$413,553. Remaining Credit to NUTC Project PIs. Account and credit transferred to Prof. K. Khayat Nov. 2011 as NUTC Center Director.

PI (100%) "National University Transportation Center for Transportation Infrastructure and Safety – Year 5," US DOT, \$3,343,400<sup>AB</sup>; Awarded July 2010 to December 2013.

<sup>AB</sup> Administrative Budget of Credit Received \$319,074. Remaining Credit to NUTC Project PIs. Account and remaining Credit transferred to Prof. K. Khayat Nov. 2011 as NUTC Center Director.

PI (100%) "National University Transportation Center for Transportation Infrastructure and Safety – Year 4," US DOT, \$3,199,000<sup>AB</sup>; Awarded July 2008 to December 2013.

<sup>AB</sup> Administrative Budget of Credit Received \$393,203. Remaining Credit to NUTC Project PIs. Account and remaining Credit transferred to Prof. K. Khayat Nov. 2011 as NUTC Center Director.

PI (70%) "National University Transportation Center for Transportation Infrastructure and Safety – Year 3," US DOT, \$2,858,100<sup>AB</sup>; Awarded July 2008 to December 2013; Co-PI: J. Sheffield.

<sup>AB</sup> Administrative Budget of Credit Received \$195,372. Remaining Credit to NUTC Project PIs.

PI (70%) "National University Transportation Center for Transportation Infrastructure and Safety – Year 2," US DOT, \$3,010,000<sup>AB</sup>; Awarded September 2007 to December 2013; Co-PI: J. Sheffield.

<sup>AB</sup> Administrative Budget of Credit Received \$240,601. Remaining Credit to NUTC Project PIs.

PI (67%) "University Transportation Center - Year 9," US DOT, \$1,560,000<sup>AB</sup>; Awarded June 2007 to December 2009; Co-PI: J. Sheffield.

<sup>AB</sup> Administrative Budget of Credit Received \$ 56,066. Remaining Credit to UTC Project PIs.

Co-PI (33%) "National University Transportation Center for Transportation Infrastructure and Safety – Year 1," US DOT, \$860,000<sup>AB</sup>; Awarded June 2007 to December 2013; PI: W. Huebner, Co-PI: K. Krishnamurthy.

<sup>AB</sup> Administrative Budget of Credit Received \$45,802. Remaining Credit to NUTC Project PIs.

## INVITED TECHNICAL PRESENTATIONS:

- ITP1. "Recent Advances in Bridge Engineering in the State of Missouri and the United States of America," Special Presentation at Shibaura Institute of Technology, Tokyo, Japan, November 6, 2018.
- ITP2. "Microstructure and Mechanical Property Behavior of In-situ FRP Reinforcement Autopsied from In-Service Bridge Structures," American Concrete Institute (ACI) 2018 Fall Conference, Las Vegas, Nevada, October 15, 2018.
- ITP3. "Microstructure and Mechanical Property Behavior of FRP Reinforcement Autopsied from Bridge Structures Subjected to In-situ Exposure," 16<sup>th</sup> International Congress on Polymers in Concrete 2018 (ICPIC 2018), Washington, DC, Apr. 29 – May 1, 2018.
- ITP4. "Bond Performance of Steel Reinforced Polymer (SRP) Subjected to Environmental Conditioning and Sustained Stress," 16<sup>th</sup> International Congress on Polymers in Concrete 2018 (ICPIC 2018), Washington, DC, Apr. 29 – May 1, 2018.
- ITP5. "Application of Composite Materials Technology into Bridge Applications in Missouri and their Long-term Durability Performance," Transportation Infrastructure Conference, Rolla, Missouri, December 8, 2017 (Special Invited Presentation).
- ITP6. "Diagnostic Test for Load Rating of a Prestressed SCC Bridge," American Concrete Institute (ACI) 2017 Fall Conference, Anaheim, California, October 16, 2017 (co-presenter, ACI Committee 239 as Special Invited Presentation).
- ITP7. "Impact Factor of a Prestressed SCC Bridge through Dynamic Load Tests," Prestressed-Precast Concrete Institute (PCI) 2017 Convention and National Bridge Conference, Cleveland, Ohio, March 4, 2017 (co-presenter, selected by Education Committee as Invited Presentation).
- ITP8. "GFRP Reinforcements in Box Culvert Bridge: A Case Study after Two Decades of Service," Transportation Research Board (TRB) 2017 Annual Meeting, Committee AAF80, Washington, DC, January 9, 2017.
- ITP9. "Innovative Infrastructure Developments and Long-term Performance Assessment," Rolla Lion's Club Featured Dinner Speaker, Rolla, Missouri, January 5, 2017.
- ITP10. "An Overview of the United States Protocols on Structural Assessment Using Load Testing: ACI 437.1R-07, ACI 437.2-13 and ACI 342R-16," 5th International Symposium on Life-Cycle Civil Engineering (IALCCE 2016), Delft, The Netherlands, October 17, 2016.
- ITP11. "Flexural Behavior of GFRP Reinforced Panels after Long-term Field Exposure," 6th International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016), Cape Town, South Africa, September 5-7, 2016.
- ITP12. "Microstructure Analysis of GFRP Reinforcing Bars Embedded in Concrete," 6th International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016), Cape Town, South Africa, September 5-7, 2016.
- ITP13. "A Comparative Study of Flexural Behavior of Reinforced Masonry Walls Strengthened with Near-Surface Mounted FRP Bars or Externally Bonded FRP Sheets," 6<sup>th</sup> International Conference on Structural Engineering, Mechanics, and Computation (SEMC 2016), Cape Town, South Africa, September 6, 2016.
- ITP14. "Physical Property and Microstructural Analysis of GFRP Reinforcing Bars Embedded in Concrete," 6<sup>th</sup> International Conference on Structural Engineering, Mechanics, and Computation (SEMC 2016), Cape Town, South Africa, September 6, 2016.
- ITP15. "Experimental Study on Flexural Behavior of Reinforced Masonry Walls Strengthened with FRCM Composite or NSM with Cementitious Adhesive," 2016 American Concrete Institute Fall Conference, Philadelphia, Pennsylvania, October 25, 2016.
- ITP16. "Bond Behavior of High-Performance Self-Consolidating Eco-Concrete," 2016 American Concrete Institute Fall Conference, Philadelphia, Pennsylvania, October 24, 2016.
- ITP17. "Monitoring the Initial Structural Performance of a Prestressed Self-Consolidating Concrete Bridge," 6<sup>th</sup> North American Conference on Design and Use of Self-Consolidating Concrete (SCC 2016) and 8<sup>th</sup> International RILEM Symposium on Self-Consolidating Concrete, Washington, DC, May 17, 2016.
- ITP18. "Strengthening of Reinforced Masonry Walls using Different Fiber Reinforced Composites: Near-Surface Mounted and EB Research" Masonry Institute of St. Louis (MISL), St. Louis, Missouri, Jan 20, 2016.
- ITP19. "Tier 1 UTC RE-CAST Studies: Use of UHP-FRC and FRCM Products for Infrastructure Renewal," 4<sup>th</sup> International Transportation Infrastructure Conference, St. Louis, Missouri, December 4, 2015.
- ITP20. "The Use of High-Strength Self-Consolidating Concrete in Bridge Girders," American Concrete Institute Spring Convention, Committee 363, Denver, Colorado, November 9, 2015.
- ITP21. "Opportunities and Challenges for Strengthening Applications," 7<sup>th</sup> International Conference on Advanced Composites in Construction (ACIC15), University of Cambridge, Cambridge, UK, Sept. 10, 2015. Lead Presenter, International Lecture Panel
- ITP22. "Monitoring Live-Load Response of Precast-Prestressed Self-Consolidating Concrete (SCC) Bridge A7957," American Concrete Institute Spring Convention (Co-presenter), Kansas City, Missouri, April 13, 2015.

- ITP23. "Use of Self-Consolidating and Sustainable Concrete for the Bridge Industry," 1<sup>st</sup> Annual Missouri Bridge Conference, Columbia, Missouri, April 9, 2015.
- ITP24. "Use of Ultra-High Performance Concrete to Mitigate Impact and Explosive Threats," American Concrete Institute Fall Conference, Washington DC, October 29, 2014.
- ITP25. "Effects of Environmental Exposure on Hybrid Composite Beam Bridges," American Concrete Institute Fall Conference, Washington DC, October 26, 2014.
- ITP26. "High Strength Self-Consolidating Concrete (HS-SCC) and High Volume Fly Ash Concrete (HVFA) in Missouri Bridge: Research Perspective," MoDOT TEAM Conference, St. Louis, Missouri, March 13<sup>th</sup>, 2014.
- ITP27. *Behavior and Construction Sequencing of Hybrid Composite Beam (HC Beam) Bridges in Missouri, USA*," 2014 Transportation Research Board Annual Meeting, Committee AFF80, Washington, DC January 15<sup>th</sup>, 2014.
- ITP28. "Use of High Strength Self-Consolidating Concrete (HS-SCC) and High Volume Fly Ash Concrete (HVFA) for Missouri Bridge 50 Implementation: Research Perspective," MSPE Professional Development Days, Jefferson City, Missouri, December 3<sup>rd</sup>, 2013.
- ITP29. "High-Strength Self Consolidating Concrete and High-Volume Fly Ash Concrete for Infrastructure Applications," 2013 Missouri S&T Transportation Infrastructure Conference, Jefferson City, Missouri, September 13<sup>th</sup>, 2013. (Co-presenter).
- ITP30. "Structural Behaviour of Hybrid Composite Beam Bridges in Missouri, USA," Advanced Composites in Construction, Belfast, Northern Ireland, United Kingdom, September 11<sup>th</sup>, 2013. Keynote International Lecture Presentation
- ITP31. "Shear Behavior of Mid-Scale Precast Prestressed (PC) Members Fabricated with Self-Consolidating Concrete (SCC) and High-Strength Self-Consolidating Concrete (HS-SCC)," 5<sup>th</sup> North American Conference on the Design and Use of Self-Consolidating Concrete (SCC), Chicago, Illinois, May 15<sup>th</sup>, 2013. Keynote International Lecture Presentation
- ITP32. "Field Evaluation of Hybrid-Composite Beam Bridges in Missouri," 2012 Missouri S&T Transportation Infrastructure Conference, Rolla, Missouri, September 27<sup>th</sup>, 2012.
- ITP33. "Strengthening Unreinforced Masonry per ACI 440.7R-10," Masonry Institute of St. Louis Annual Educational Series, St. Louis, Missouri, Jan 18<sup>th</sup>, 2012.
- ITP34. "Recent Advances in Concrete Technologies for Bridge Applications," GeoHunan International Conference II: Emerging Technologies for Design, Construction, Rehabilitation, and Inspection of Transportation Infrastructures, Zhangjiajie, Hunan Province, China, June 6-8, 2011. Keynote International Lecture Presentation
- ITP35. "The North American UHPC Working Group and Other UHPC Thoughts," American Concrete Institute Spring Conference, Tampa, Florida, April 6<sup>th</sup>, 2011.
- ITP36. "Discrete Fiber Reinforced Polyurea System for Blast and Hazard Mitigation," American Concrete Institute Spring Conference, Tampa, Florida, April 4<sup>th</sup>, 2011.
- ITP37. "Alternative Masonry Product Development / In-Plane and Out-of-Plane Behavior with Polyurea Membranes," 9<sup>th</sup> Australasian Masonry Conference, Queenstown, New Zealand, February 17<sup>th</sup>, 2011. Invited International Technical Presentation in New Zealand
- ITP38. "Rapid Set Concrete for Pavement and Deck Repair Applications," Michigan Tech – University Transportation Center Pavement Summit, Houghton, Michigan, November 4<sup>th</sup>, 2010.
- ITP39. "Full Scale Blast Testing of Hybrid Barrier Systems," American Concrete Institute Fall Conference, Pittsburgh, Pennsylvania, October 24<sup>th</sup>, 2010.
- ITP40. "Advances in Concrete Technology for Infrastructure and Bridge Applications: Quality Control/Quality Assurance Technologies and Requirements for HSC," Zhangjiajie-Huayuan Expressway, Zhangjiajie, China, June 9<sup>th</sup>, 2010. Invited Technical Presentation US Delegation to China
- ITP41. "Advanced Composites for New Construction, Repair, and Rehabilitation of the Infrastructure," Changsha University of Science and Technology, Changsha, China, June 8<sup>th</sup>, 2010. Invited Technical Presentation US Delegation to China
- ITP42. "Recent HSC Research Studies and Code Developments for HSC in the United States," Shandong Transportation Institute, Jinan, China, June 6<sup>th</sup>, 2010. Invited Technical Presentation US Delegation to China
- ITP43. "Development of Sustainable HSC Mix Designs for Infrastructure Applications through Particle Packing Theory," Shandong Transportation Institute, Jinan, China, June 6<sup>th</sup>, 2010. Invited Technical Presentation US Delegation to China
- ITP44. "Comparative Study between the Use of HSC and HS-SCC for Accelerated Construction of Bridges," Shandong Transportation Institute, Jinan, China, June 6<sup>th</sup>, 2010. Invited Technical Presentation US Delegation to China
- ITP45. "Developing a Research Agenda for Transportation Infrastructure Preservation and Renewal: Strategies for Rapid Repair and Rehabilitation," American Concrete Institute 2010 Spring Conference, Chicago, IL, March 21<sup>st</sup>, 2010.
- ITP46. "Developing a Research Agenda for Transportation Infrastructure Preservation and Renewal," 2009 Transportation Research Board Infrastructure Preservation and Renewal Spotlight Conference, Washington, D.C., November 13<sup>th</sup>, 2009.
- ITP47. "Load Testing and Load Distribution of Fiber Reinforced Polymer Strengthened Bridges: Multi-Year Post Construction / Post Retrofit Performance Evaluation," International Conference on FRP Composites for Infrastructure Applications, San Francisco, CA, Nov. 6<sup>th</sup>, 2009. CERL Invited US Panel of Experts Representative



- ITP48. "A Sustainable Construction Material for the Masonry Industry," National Concrete Masonry Association (NCMA) Summer Meeting, Chicago, Illinois, August, 7<sup>th</sup>, 2009.
- ITP49. "Optimal Design and Use of Advanced Structural Materials to Mitigate Explosive and Impact Threats," Blast Mitigation Workshop, University of Rhode Island, Kingston, Rhode Island, April 30<sup>th</sup>, 2009.
- ITP50. "Durability Performance of Polyurea Based Systems for Concrete Member Rehabilitation," American Concrete Institute 2009 Spring Conference, San Antonio, Texas, March 15<sup>th</sup>, 2009.
- ITP51. "Structural Response of Bridge Girders and Deck Systems with Advanced Materials under Field Load Testing," American Concrete Institute 2008 Fall Conference, St. Louis, Missouri, November 4<sup>th</sup>, 2008.
- ITP52. "The Use of High Strength/High Performance Concrete in America: A Code and Application Perspective," The 8<sup>th</sup> International Symposium on Utilization of High-Strength/High-Performance Concrete – Keynote Lecture," Tokyo, Japan, October 27-29<sup>th</sup>, 2008. Keynote International Lecture Presentation
- ITP53. "The CTIS National University Transportation Role in Transportation Research and Development," Missouri Leadership Conference, Springfield, Missouri, August 15<sup>th</sup>, 2008.
- ITP54. "Missouri S&T's CTIS-NUTC Best Practices," CUTC Annual Conference, San Jose, California, June 25<sup>th</sup>, 2008.
- ITP55. "An Overview of Composites Usage in Bridge Facilities in the State of Missouri, USA," Proceedings for International Conference and Exhibition on Reinforced Plastics (ICERP 2008)," Mumbai, India, February 7-9<sup>th</sup> 2008. NSF US Panel of Experts Representative
- ITP56. "Field Strengthening and Validation of FRP Composites Technology in Missouri," Polymer Composites Conference IV: Composite Applications and Fundamentals," Morgantown, West Virginia, March 21<sup>st</sup>, 2007. NSF Panel of Experts Representative
- ITP57. "Innovative FRP Reinforced Concrete Bridges with Extended Service Life," Transportation Research Board 2007 Annual Meeting, Washington, D.C., January, 23<sup>rd</sup>, 2007. (Presentation given on behalf of Dr. Brahim Benmokrane, University of Sherbrooke)
- ITP58. "Repair Using Fiber Reinforced Polymers: Applications," 2006 Virginia FRP Showcase Sponsored by FHWA, Bristol, Virginia; September 21<sup>st</sup>, 2006. FHWA Panel Invitee and Presenter
- ITP59. "Acousto-Ultrasonic Technology for Non-Destructive Evaluation of CFRP Strengthened Concrete Bridge Members," 2006 NDE Conference on Civil Engineering-The American Society for Nondestructive Testing, St. Louis, Missouri, August 16<sup>th</sup>, 2006.
- ITP60. "Validation of FRP Composite Technology through Field Testing," American Association of State Highway Transportation officials (AASHTO) 2006 Annual Meeting, Snowbird, Utah, May 22<sup>nd</sup>, 2006.
- ITP61. "Student Competitions and Their Role in Education and Active Learning," American Concrete Institute 2005 Fall Conference, Charlotte, North Carolina, March 26<sup>th</sup>, 2006. Walter P. Moore Jr. Faculty Award Presentation
- ITP62. "Structural Design Considerations of High Strength Concrete," 7<sup>th</sup> High Performance Concrete International Symposium, Washington, DC, June 21<sup>st</sup>, 2005.
- ITP63. "Material Properties of High Strength Concrete," 7<sup>th</sup> High Performance Concrete International Symposium, Washington, DC, June 21<sup>st</sup>, 2005.
- ITP64. "Case Studies for Load Distribution for Existing Bridge Evaluations," American Concrete Institute 2005 Spring Convention, New York, NY, April 18<sup>th</sup>, 2005.
- ITP65. "7<sup>th</sup> Annual FRP Composites Competition," American Concrete Institute 2005 Spring Convention, New York, NY, April 17<sup>th</sup>, 2005.
- ITP66. "Preservation of Missouri Transportation Infrastructure – Validation of FRP Composite Technology through Field Testing," 2004 APWA Conference, Lake of the Ozarks, Missouri, November 8<sup>th</sup>, 2004.
- ITP67. "24<sup>th</sup> Annual Concrete Cube Strength Competition," American Concrete Institute 2004 Fall Convention, San Francisco, CA, October 24<sup>th</sup>, 2004.
- ITP68. "Fatigue Behavior of FRP Retrofitted Concrete Beams Subjected to Environmental Conditioning," 2004 Concrete Bridge Conference, Charlotte, North Carolina, May 18<sup>th</sup>, 2004.
- ITP69. "Fiber Reinforced Polymers and their Application to Masonry Structures," 2003-2004 Engineering Seminar on Masonry, The Masonry Institute of St. Louis, St. Louis, MO, April 21<sup>st</sup>, 2004.
- ITP70. "Upgrade of the Built Infrastructure," Fort Leonard Word Homeland Security Conference, FLW, Missouri, January 23<sup>rd</sup>, 2003.
- ITP71. "Construction Specification and Inspection Process for FRP Repair/Strengthening of Concrete Structures," Transportation Research Board 2003 Annual Meeting, Washington, D.C., January 15<sup>th</sup>, 2003.
- ITP72. "The Role of the ACI Faculty Network," ACI Fall Convention, Phoenix, AZ, November 4<sup>th</sup>, 2002.
- ITP73. "Use of FRP for Blast Resistance Retrofitting of Masonry Systems," Society of American Military Engineers; 2002 Annual SAME Conference, Kansas City, Missouri, May 22<sup>nd</sup>, 2002.
- ITP74. "Practical Issues for the Application of High Performance Concrete to Highway Structures," New York City Bridge Engineers Conference, New York, New York, October 29<sup>th</sup>, 2001.
- ITP75. "Committee 363 State-of-the-Art Document - Chapter 5: High Strength Concrete Material Properties," ACI Fall Convention, Dallas, TX, November 1<sup>st</sup>, 2001.
- ITP76. "Laser Profilometry for Concrete Roughness Characterization for Externally Bonded Fiber Reinforced Polymer Laminates," 2001 Joint Applied Mechanics and Materials Conference [ASME Materials Division (MD) and the

Applied Mechanics Division (AMD), ASCE's Engineering Mechanics Division and the Society of Engineering Sciences (SES)], San Diego, California, June 29<sup>th</sup>, 2001.

- ITP77. "Use of FRP Materials for Infrastructure Components," Missouri Association of Councils of Government, Jefferson City, Missouri, December 7<sup>th</sup>, 2000.
- ITP78. "I-Girder Studies," Highway Engineers' Association of Missouri Conference, Osage Beach, Missouri, March 30<sup>th</sup>, 2000.
- ITP79. "Influence of Hydration Temperature on the Durability and Mechanical Property Performance of HPC Prestressed / Precast Beams," 5<sup>th</sup> International Bridge Engineering Conference, Tampa, Florida, April 3<sup>rd</sup>, 2000.
- ITP80. "Production of High-Strength Concrete In Texas Bridges," ACI Annual Spring Meeting, Chicago, Illinois - March 18<sup>th</sup>, 1999.
- ITP81. "Mix Proportioning for High-Strength HPC Bridge Beams," ACI Annual Spring Meeting, Chicago, Illinois - March 18<sup>th</sup>, 1999.
- ITP82. "Mix Proportioning of High Performance Concrete," ACI/FHWA Arizona High Performance Concrete Workshop, Tempe, Arizona - December 9<sup>th</sup>, 1998.
- ITP83. "Texas High Performance Concrete," Ohio Transportation Engineering Conference, Columbus, Ohio - November 18<sup>th</sup>, 1998.
- ITP84. "Durability of Concrete and High Performance Concrete Bridges in Texas," Structural Engineers Association of Texas, Austin, Texas - January 28<sup>th</sup>, 1998.
- ITP85. "What Does A Specified Maximum Water-Cement Ratio Do For Durability of Concrete?," ACI Fall Meeting, Atlanta, Georgia - November 12<sup>th</sup>, 1997.
- ITP86. "Mix Proportioning & Materials Testing Workshop Panel" & "Guidelines for Developing High Performance Concrete Mix Designs," SHRP HPC Bridge Showcase, Waterville Valley, New Hampshire - September 22<sup>nd</sup>, 1997.
- ITP87. "Guidelines for Developing High Performance Concrete Mix Designs," SHRP HPC Bridge Showcase, Nashville, Tennessee - August 26<sup>th</sup>, 1997.
- ITP88. "Quality Control / Quality Assurance Program for High Performance Concrete," SHRP HPC Bridge Showcase, Nashville, Tennessee - August 26<sup>th</sup>, 1997.
- ITP89. "Material and Mechanical Properties of Texas High Performance Concrete Bridges," USA and Australia Workshop on Application of High Performance Concrete Including Marine Structures, Sydney, North South Wales, Australia - August 23<sup>rd</sup>, 1997. NSF US Panel Representative
- ITP90. "High Performance Concrete Bridge Projects in Texas," National Ready Mix Concrete Association - Annual Meeting, Austin, Texas - June 27<sup>th</sup>, 1997.
- ITP91. "High Performance Concrete Bridges In Texas - Materials," STEER - Structural Engineering Education Reunion, Bi-Annual Meeting, Austin, Texas - May 15<sup>th</sup>, 1997.
- ITP92. "The Role of Aggregates in the Production of High Performance Concrete U-Beams," ICAR Annual Meeting, Austin, Texas - April 23<sup>rd</sup>, 1997.
- ITP93. "High Performance Concrete," Oklahoma Ready Mix Concrete Association, Winter Meeting, Oklahoma City, Oklahoma - January 17<sup>th</sup>, 1997.
- ITP94. "Mix Proportioning High Performance Concrete for Specification Requirements," Structures Seminar, University of Texas at Austin, Austin, Texas - November 20<sup>th</sup>, 1996.

## **TECHNICAL PRESENTATIONS:**

- TP1. "The Bond Behavior of SRP-the-Concrete System in Field Environment," 9th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2018), Paris, France, July 18, 2018, (co-presenter).
- TP2. "Out-of-Plane Behavior of RM Walls Strengthened with FRCM Composite or NSM with Cementitious Adhesive," 9th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2018), Paris, France, July 18, 2018, (co-presenter).
- TP3. "Strength Evaluation of Prestressed Concrete Bridges by Load Testing," 9th International Conference on Bridge Maintenance, Safety, and Management (IABMAS 2018), Melbourne, Australia, July 13, 2018 (co-presenter).
- TP4. "In-service Stress and Strain Behavior of Missouri Bridge A7957," 9th International Conference on Bridge Maintenance, Safety, and Management (IABMAS 2018), Melbourne, Australia, July 13, 2018 (co-presenter).
- TP5. "Effect of Long-term Environmental Exposure on EB FRP or FRCM Reinforced Masonry System," 10<sup>th</sup> International Masonry Conference, Milan, Italy, July 9, 2018.
- TP6. "Diagnostic Test for Load Rating of a Prestressed SCC Bridge," American Concrete Institute (ACI) 2017 Fall Conference, Anaheim, California, October 18, 2017 (co-presenter).
- TP7. "Bond Performance of Eco-Friendly Self-Consolidating Concrete (Concrete with 70% Cement Replacement)," American Concrete Institute (ACI) 2017 Fall Conference, Anaheim, California, October 17, 2017 (co-presenter).
- TP8. "Evaluation of FRP and FRCM Composites for the Strengthening of Reinforced Masonry Walls," American Concrete Institute (ACI) 2017 Fall Conference, Anaheim, California, October 15, 2017 (co-presenter).

- TP9. "Non-prestressed Composite Bridge Deck-Girder with End-Girder Continuity Detail using UHPC within the End Connection," 3<sup>rd</sup> International Symposium on Ultra-High Performance Fibre-Reinforced Concrete (UHPFRC) Montpellier, France, October 4, 2017.
- TP10. "Optimization Performance of High Volume Fly Ash Self-Consolidating Mixtures with Hydrated Lime (Mortar Component)," 10<sup>th</sup> ACI/RILEM International Conference on Cementitious Materials and Alternative Binders for Sustainable Concrete (ICCMC 2017) Montreal, Quebec, Canada, October 3, 2017.
- TP11. "Effectiveness of FRCM System in Strengthening Reinforced Masonry Walls Subjected to Cyclic Loading," 39<sup>th</sup> International Association of Bridge and Structural Engineering (IABSE 2017), Vancouver, British Columbia, Canada, September 22, 2017.
- TP12. "Flexural Performance of Two-Way Concrete Slabs Reinforced with Carbon Fiber Grid," 39<sup>th</sup> International Association of Bridge and Structural Engineering (IABSE 2017), Vancouver, British Columbia, Canada, September 22, 2017.
- TP13. "Dynamic Load Allowance of a Prestressed Concrete Bridge through Load Field Tests," 4<sup>th</sup> International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2017), Zurich, Switzerland, September 15, 2017.
- TP14. "Evaluation of Strains and Stresses of Prestressed Girders for Bridge A7957, Missouri, USA (Field Study)," 4<sup>th</sup> International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2017), Zurich, Switzerland, September 15, 2017.
- TP15. "Experimental Investigation on Anchorage Systems for Enhancing the Mechanical Performance of FRCM Composites in Retrofitting RC Structural Beams," 8<sup>th</sup> International Conference on Advanced Composites in Construction (ACIC 2017), Sheffield, England, United Kingdom, September 5, 2017.
- TP16. "Durability of Extracted In-Service GFRP Bars in RC Subjected to Field Exposure," 8<sup>th</sup> International Conference on Advanced Composites in Construction (ACIC 2017), Sheffield, England, United Kingdom, September 5, 2017.
- TP17. "Environmental Effects on the Durability Performance of FRCM Composite Bonded to Concrete," 5<sup>th</sup> International Conference on Durability of Fibre Reinforced Polymer (FRP) Composites for Construction & Rehabilitation of Structures (CDCC 2017), Sherbrooke, Quebec, Canada, July 19, 2017.
- TP18. "Bond Performance of SRP-to-Concrete Subjected to Environmental Cycling and Sustained Loading," 5<sup>th</sup> International Conference on Durability of Fibre Reinforced Polymer (FRP) Composites for Construction & Rehabilitation of Structures (CDCC 2017), Sherbrooke, Quebec, Canada, July 20, 2017.
- TP19. "Thermal Characterization of Concrete Masonry Units Manufactured Using Recycled Tires as an Aggregate," 13<sup>th</sup> Canadian Masonry Symposium (13 CMS), Halifax, Nova Scotia, Canada, June 5, 2017.
- TP20. "Cyclic Behavior of Concrete Masonry Units Manufactured with Recycled Tires as an Aggregate," 13<sup>th</sup> Canadian Masonry Symposium (13 CMS), Halifax, Nova Scotia, Canada, June 5, 2017.
- TP21. "Performance of Reinforced Masonry Walls Strengthened with FRP Composite Exposed to Harsh Environmental Conditions," 13<sup>th</sup> Canadian Masonry Symposium (13 CMS), Halifax, Nova Scotia, Canada, June 4, 2017.
- TP22. "Seismic Performance of Reinforced Masonry Walls Strengthened with FRMC Subjected to Cyclic Loading," 13<sup>th</sup> Canadian Masonry Symposium (13 CMS), Halifax, Nova Scotia, Canada, June 4, 2017.
- TP23. "Behavior of Full-Scale Damaged Beams Repaired with SRP," American Concrete Institute (ACI) 2017 Spring Conference, Detroit, Michigan March 27, 2017.
- TP24. "Self-Consolidating Concrete with 70 Percent Cement Replacement," American Concrete Institute (ACI) 2017 Spring Conference, Detroit, Michigan, March 27, 2017 (co-presenter).
- TP25. "Long-term Durability of GFRP Internal Reinforced Concrete Structures," American Concrete Institute (ACI) 2017 Spring Conference, Detroit, Michigan, March 27, 2017 (co-presenter).
- TP26. "Evaluation of Prestress Losses for Bridge A7957 Constructed with High Strength Concrete (Field Study)," Prestressed-Precast Concrete Institute (PCI) 2017 Convention and National Bridge Conference, Cleveland, Ohio, March 3, 2017 (co-presenter).
- TP27. "Durability Assessment of FRP Bars Extracted from FRP Bridge Structures Exposed to Field Conditions," 8<sup>th</sup> International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016), Hong Kong, China, Dec. 14, 2016.
- TP28. "Durability Performance of FRCM Composite Bonded to Concrete Under Different Environmental Ageing Conditions," 8<sup>th</sup> International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016), Hong Kong, China, Dec. 14, 2016.
- TP29. "Contribution of Externally Bonded FRP to Flexural Capacity of Reinforced Masonry Walls Subjected to Out-of-Plane Load," 8<sup>th</sup> International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016), Hong Kong, China, Dec. 14, 2016.
- TP30. "GFRP Reinforcements in Box Culvert Bridge: A Case Study After Two Decades of Service," American Society of Testing Methods International Symposium (ASTM Symposium 2016), Orlando, Florida, December 7, 2016.

- TP31. "Experimental Study on Flexural Behavior of Reinforced Masonry Walls Strengthened with FRCM Composite or NSM with Cementitious Adhesive," American Concrete Institute (ACI) 2016 Fall Conference, Philadelphia, Pennsylvania, October 25, 2016.
- TP32. "Bond Behavior of High Performance Self-Consolidating Concrete," American Concrete Institute (ACI) 2016 Fall Conference, Philadelphia, Pennsylvania, October 25, 2016, 2016.
- TP33. "Initial Response of a Prestressed Self-Consolidating Concrete (SCC) Bridge Using Diagnostic Load Tests," 5th International Symposium on Life-Cycle Civil Engineering (IALCCE 2016), Delft, The Netherlands, October 17, 2016.
- TP34. "Strengthening of Reinforced Concrete One-way Slabs for Flexure using Composite Materials: Evaluation of Different Composite Materials," 4th International Conference on Sustainable Construction Materials and Technologies (SCMT4), Las Vegas, Nevada, Aug. 9, 2016. **OUTSTANDING CONFERENCE PAPER AWARD**
- TP35. "Flexural Capacity of Out-of-Plane Reinforced Masonry Walls Strengthened with Externally Bonded (EB) FRP," 7th International Conference on Advanced Composite Materials in Bridges and Structures (VII ACMBS), Vancouver, British Columbia, Canada, August 23, 2016.
- TP36. "Hybrid Composite Beam (HCB) Bridges' Performance in Alkaline and Saline Environments," 7th International Conference on Advanced Composite Materials in Bridges and Structures (VII ACMBS), Vancouver, British Columbia, Canada, August 22, 2016.
- TP37. "Fracture Behavior of High Volume Fly Ash-Self Consolidating Concrete," 4th International Conference on Sustainable Construction Materials and Technologies (SCMT4), Las Vegas, NV, August 8, 2016.
- TP38. "UHPC in Non-Prestressed Reinforced Concrete (RC) Continuous Girder Sections for Bridge Elements," 1st International Interactive Symposium on Ultra High Performance Concrete (UHPC 2016), Des Moines, Iowa, July 20, 2016.
- TP39. "Behavior of Ultra-High Performance Concrete Bridge Deck Panels Compared to Conventional Stay-In-Place Deck Panels," 1st International Interactive Symposium on Ultra High Performance Concrete (UHPC 2016), Des Moines, Iowa, July 20, 2016.
- TP40. "Ability to Resist Different Weathering Actions of Eco-friendly Wood Fiber Masonry Blocks," 16th International Brick and Block Masonry Conference (IBMAC 2016), Padova, Italy, June 26-30, 2016.
- TP41. "Energy Efficiency and Thermal Characterization of Eco-friendly Wood Fiber Masonry Blocks," 16th International Brick and Block Masonry Conference (IBMAC 2016), Padova, Italy, June 26-30, 2016.
- TP42. "Creep and Shrinkage of Ecological Self-Consolidating Concrete," 2nd International Conference on Performance-based Lifecycle Structural Engineering (PLSE 2015), Brisbane, Australia, Dec. 10, 2015.
- TP43. "Strengthening of Reinforced Concrete Beams in Shear with Fiber Reinforced Cementitious Matrix," 2nd International Conference on Performance-based Lifecycle Structural Engineering (PLSE 2015), Brisbane, Australia, Dec. 11, 2015.
- TP44. "Live-Load Distribution Factors and Service Response of Missouri Bridge A7957," 8th International Structural Engineering and Construction Conference (ISEC-8), Sydney, Australia, November 25, 2015.
- TP45. "Influence of Near-Surface Mounted (NSM) FRP with Cementitious Material on the Out-Of-Plane Behavior of Reinforced Masonry Walls," 8th International Structural Engineering and Construction Conference (ISEC-8), Sydney, Australia, November 25, 2015.
- TP46. "Effect of Accelerated Curing on Abrasion Resistance of High Volume Supplementary Cementitious Material Self-Consolidating Concrete (HVSCM-SCC)," 8th International Structural Engineering and Construction Conference (ISEC-8), Sydney, Australia, November 24, 2015.
- TP47. "Effect of Near-Surface Mounted (NSM) FRP on the Out-Of-Plane Behavior of Reinforced Masonry Walls," 7th International Conference on Advanced Composites in Construction (ACIC15), University of Cambridge, Cambridge, UK, Sept. 11, 2015.
- TP48. "Fatigue and Flexural Behavior of Reinforced Concrete Beams Strengthened with Fiber Reinforced Cementitious Matrix," 7th International Conference on Advanced Composites in Construction (ACIC15), University of Cambridge, Cambridge, UK, Sept. 10, 2015.
- TP49. "High Strength Self-Consolidating Concrete Prestress Losses of Bridge A7957, MO, USA Compared to Code Models," 5th International Conference on Construction Materials (ConMat15), Whistler, Canada, Aug. 20, 2015.
- TP50. "Monitoring of Total Prestress Losses in the High Strength Self-Consolidating Concrete Girders of Bridge A7957, MO, USA Using VWGs: Field Study," 16th European Bridge Conference (ECB16), Edinburgh, Scotland, UK, June 24, 2015.
- TP51. "In-Situ Field Test and Service Response of Missouri Bridge A7957," 16th European Bridge Conference (ECB16), Edinburgh, Scotland, UK, June 25, 2015.
- TP52. "Influence of Near-Surface Mounted (NSM) FRP on the Out-Of-Plane Behavior of Reinforced Masonry Walls," 12th North American Masonry Society (12NAMC), Denver, Colorado, May 19, 2015.

- TP53. "Effects of Environmental Exposure on Hybrid Composite Beam (HCB) Bridges," 23<sup>rd</sup> Australasian Conference on the Mechanics of Structures and Materials (ACMSM23), Byron Bay, Australia, December 11, 2014.
- TP54. "Creep and Shrinkage Behavior of High-Strength Self-Consolidating Concrete (HS-SCC) and Normal Strength Self-Consolidating Concrete (NS-SCC) Compared to Code Models," 23<sup>rd</sup> Australasian Conference on the Mechanics of Structures and Materials (ACMSM23), Byron Bay, Australia, December 11, 2014.
- TP55. "Construction and Monitoring of Sustainable Concrete Bridge A7957 in Missouri, USA," 23<sup>rd</sup> Australasian Conference on the Mechanics of Structures and Materials (ACMSM23), Byron Bay, Australia, December 11, 2014.
- TP56. "Use of Self-Consolidating Concrete (SCC) and High Volume Fly Ash Concrete (HVFAC) For A Bridge Implementation," American Concrete Institute Fall Conference, (Co-presenter), Washington DC, October 28, 2014.
- TP57. "Use of Passive and Wireless-Based RFID Sensors to Measure Chloride Ingress in Concrete, (Co-presenter), Washington DC, October 27, 2014.
- TP58. "In-situ Load Testing Results of Hybrid Composite Beam Bridges in Missouri, USA," Composites in Civil Engineering (CICE-14), Vancouver, BC, Canada, August 20-22, 2014.
- TP59. "Long-term In-situ Bond Behavior of Externally Bonded Fiber Reinforced Polymer Laminates Subjected to Environmental Conditioning," Composites in Civil Engineering (CICE-14), Vancouver, BC, Canada, August 20-22, 2014.
- TP60. "Long-term Service Behavior of Secondary Reinforced Fiber Reinforced Polymer (FRP) RC Panels," Structural Faults & Repair: Concrete, Materials & Conservation Conference (SF&R 2014), London, England, UK, July 10, 2014.
- TP61. "Hybrid Composite Beam Bridge Implementation and Field Monitoring," 2014 Structural Faults & Repair European Bridge Conference (SF&R 2014), London, England, UK, July 9, 2014.
- TP62. "Balancing Extended Service Life and Sustainable Concrete Usage in Missouri Bridge A-7957," 2014 Structural Faults & Repair European Bridge Conference (SF&R 2014), London, England, UK, July 8, 2014.
- TP63. "Implementation of Hybrid Composite Beam Bridges in Missouri, USA," Fourth Asia-Pacific Conference on FRP in Structures (APFIS-13), Melbourne, Victoria, Australia, December 5<sup>th</sup>, 2013.
- TP64. "Early-age Behavior and Construction Sequencing of Hybrid Composite Beam (HC Beam) Bridges in Missouri, USA," First International Conference on Concrete Sustainability (FRPRCS-11), Guimaraes, Portugal, (Co-presenter), June 27<sup>th</sup>, 2013.
- TP65. "Image Characterization of Aggregate Interlock Interface of Self-Consolidating Concrete (SCC) Push-off Specimens," ISEC13, The Seventh International Structural Engineering and Construction Conference, Honolulu, June 19<sup>th</sup>, 2013.
- TP66. "Aggregate Interlock Push-off Test Results of Self-Consolidating Concrete (SCC) for use in Infrastructure Elements," ISEC13, The Seventh International Structural Engineering and Construction Conference, Honolulu, June 19<sup>th</sup>, 2013.
- TP67. "Experimental Study on Shear Strength of High-Volume Fly Ash Concrete versus Conventional Concrete," First International Conference on Concrete Sustainability (ICCS 2013), Tokyo, Japan, May 28<sup>th</sup>, 2013.
- TP68. "Bond Behavior of High-Volume Fly Ash Concrete," First International Conference on Concrete Sustainability (ICCS 2013), Tokyo, Japan, May 28<sup>th</sup>, 2013.
- TP69. "Comparative Study on the Mechanical and Durability Behavior of High-Volume Fly Ash Concrete (HVFAC) versus Conventional Concrete (CC)," First International Conference on Concrete Sustainability (ICCS 2013), Tokyo, Japan, May 27<sup>th</sup>, 2013.
- TP70. "Mechanical and Durability Behavior of Self-Consolidating Concrete (SCC) versus Conventional Concrete (CC)," 5<sup>th</sup> North American Conference on the Design and Use of Self-Consolidating Concrete (SCC), Chicago, Illinois, May 14<sup>th</sup>, 2013.
- TP71. "Adhesion Tests and Failure Modes Study on Structural Steel Coatings," 2013 The Society for Protective Coatings (SSPC) Annual Meeting, San Antonio, Texas, January 17<sup>th</sup>, 2013.
- TP72. "Field Performance of Cost Efficient Cast-in-Place and Precast Prestressed Bridge Approach Slabs," Co-presenter, 2013 Annual Transportation Research Board Meeting, Washington, D.C., January 15<sup>th</sup>, 2013.
- TP73. "Effect of High-Volume Fly Ash on Shear Strength of Concrete Beams," Co-presenter, 2013 Annual Transportation Research Board Meeting, Washington, D.C., January 14<sup>th</sup>, 2013.
- TP74. "Shrinkage and Creep Behavior of High Volume Fly Ash Concrete for Transportation Related Infrastructure Applications," Structural Faults & Repair (SF&R 2012), Edinburgh, Scotland, UK, July 4<sup>th</sup>, 2012.
- TP75. "Bond Behavior of High Volume Fly Ash Concrete for Infrastructure Applications," Structural Faults & Repair (SF&R 2012), Edinburgh, Scotland, UK, July 4<sup>th</sup>, 2012.
- TP76. "Blast Testing and Numerical Simulation of Reinforced Concrete Panels with Discrete Fiber Reinforced Polyurea (DFRP) Systems," CICE 2012, Rome, Italy, June 14<sup>th</sup>, 2012.

- TP77. "Blast Testing of Three Types of Panels with External Strengthening Systems," Co-presenter, 2012 SEM International Congress, Carlsbad, California, June 12<sup>th</sup>, 2012.
- TP78. "Use of HS-Self Consolidating Prestressed Concrete for Achieving Sustainability under Rapid Construction," American Concrete Institute 2011 Fall Conference, Cincinnati, Ohio, Oct. 18<sup>th</sup>, 2011.
- TP79. "Bond Behavior of Externally Bonded Fiber Reinforced Polymer Laminates Subjected to In-Situ Service Loading and Environmental Conditioning," CDCC 2011, Quebec City, Quebec, Canada, July 22-24<sup>th</sup>, 2011.
- TP80. "Accelerated Construction for Pedestrian Bridges: A Comparison between High-Strength Concrete (HSC) and High-Strength Self Consolidating Concrete (HS-SCC)," GeoHunan 2011 International Conference, Zhangjiajie, Hunan Province, China, June 6-8<sup>th</sup>, 2011.
- TP81. "Modern Protection Systems to Prevent Corrosion of Structural Steel Elements due to Deicing and Roadway Salts," GeoHunan 2011 International Conference, Zhangjiajie, Hunan Province, China, June 6-8<sup>th</sup>, 2011.
- TP82. "An Overview of the American Concrete Institute Design Approach for Strengthening Unreinforced Masonry Structures Using Externally Bonded FRP Systems," 11<sup>th</sup> North American Masonry Conference, Minneapolis, MN, June 5-7<sup>th</sup>, 2011.
- TP83. "Discrete Fiber Reinforced Polymer Systems for Repair of Concrete Structures: Polyurea-Fiber Characterization Results," FRPRCS-ACI Fall Conference, Tampa, Florida, April 3<sup>rd</sup>, 2011.
- TP84. "Structural Steel Coatings for Corrosion Mitigation," 2011 MoDOT Transportation Forum, Rolla, Missouri, Co-presenter, March 10<sup>th</sup>, 2011.
- TP85. "Strengthening Unreinforced Masonry Structures Using Externally Bonded FRP Systems: An Overview of the American Concrete Institute 440.7R Design Approach," 9<sup>th</sup> Australasian Masonry Conference, Queenstown, New Zealand, February 15<sup>th</sup>, 2011.
- TP86. "Discrete Fiber Reinforced Polyurea for Hazard Mitigation," Fifth International Conference on FRP Composites in Civil Engineering (CICE 2010), Beijing, China, Sept 27-29<sup>th</sup>, 2010.
- TP87. "In-Plane Behavior of an Alternative Masonry Retrofitted with Polyurea Membranes," Structural Faults & Repair (SF&R 2010), Edinburgh, Scotland, UK, June 15<sup>th</sup>, 2010.
- TP88. "Elastomeric Systems with Discrete Fiber for Infrastructure Repair and Rehabilitation," Structural Faults & Repair (SF&R 2010), Edinburgh, Scotland, UK, June 15<sup>th</sup>, 2010.
- TP89. "A Comparative Study between the Use of High-Strength Concrete (HSC) and High-Strength Self Consolidating Concrete (HS-SCC) for Accelerated Construction of Pedestrian Bridges," 3<sup>rd</sup> Congress of the International Federation for Structural Concrete (fib), Washington, DC, May 30<sup>th</sup>, 2010.
- TP90. "Structural Steel Coating Technologies for Corrosion Mitigation," 2009 Transportation Research Board Infrastructure Preservation and Renewal Spotlight Conference, Washington, D.C., November 12<sup>th</sup>, 2009.
- TP91. "Techniques for Rapid Repair and Strengthening Using Composite Technologies: Missouri Perspective," 2009 Transportation Research Board Infrastructure Preservation and Renewal Spotlight Conference, Washington, D.C., November 12<sup>th</sup>, 2009.
- TP92. "Shear Behavior of Reduced Modulus Prestressed High-Strength Self Consolidating Concrete (HS-SCC) Members Subjected to Elevated Concrete Fiber Stresses," Precast/Prestressed Concrete Institute 2009 National Bridge Conference, San Antonio, Texas, September 15<sup>th</sup>, 2009.
- TP93. "Residual Properties of Seven Wire Low Relaxation Prestressing Tendon Subjected to Extreme Temperatures," Precast/Prestressed Concrete Institute 2009 National Bridge Conference, San Antonio, Texas, September 15<sup>th</sup>, 2009.
- TP94. "In-Plane Response on an Alternative URM Infill Wall System with and without a Polyurea Retrofit," 9<sup>th</sup> International Symposium on Reinforced Polymer Reinforcement for Concrete Structures," Sydney, Australia, July 14<sup>th</sup>, 2009.
- TP95. "Impact Testing of Polyurea Coated Reinforced Concrete and Hybrid Panels," 9<sup>th</sup> International Symposium on Reinforced Polymer Reinforcement for Concrete Structures," Sydney, Australia, July 14<sup>th</sup>, 2009.
- TP96. "Near Field Blast Resistance of Hybrid Panels Retrofitted with a Polyurea System," 9<sup>th</sup> International Symposium on Reinforced Polymer Reinforcement for Concrete Structures," Sydney, Australia, July 14<sup>th</sup>, 2009.
- TP97. "Prestress Loss Behavior of High Strength Self-Consolidating Concrete Girders Subjected to Elevated Compressive Fiber Stresses," The 8<sup>th</sup> International Symposium on Utilization of High-Strength/High-Performance Concrete," Tokyo, Japan, October 27-29<sup>th</sup>, 2008.
- TP98. "Prestress Loss Behavior of HS-SCC Subjected to Elevated Compressive Fiber Stresses," Prestressed/Precast Concrete Institute 2008 National Bridge Conference, Orlando, Florida, October 5-7<sup>th</sup>, 2008.
- TP99. "Bond Performance of Patching Materials Subjected to Environmental Effects," Fourth International Conference on FRP Composites in Civil Engineering (CICE 2008)," Zurich, Switzerland, July 22-24<sup>th</sup>, 2008.



- TP100. "Comparing Slenderness Effects on the Out-of-Plane Behavior of URM Infills using Modern Retrofits," Fourth International Conference on FRP Composites in Civil Engineering (CICE 2008)," Zurich, Switzerland, July 22-24<sup>th</sup>, 2008.
- TP101. "Durability Performance of Polyurea Based Systems for Concrete Member Rehabilitation," Proceedings for the Structural Faults & Repair-2008, Edinburgh, Scotland, United Kingdom, June 10-12<sup>th</sup>, 2008.
- TP102. "Calibration of Shrinkage behavior of High-Strength Concrete (HSC) Subjected to Accelerated Curing at Early-Age," 2008 Concrete Bridge Conference: HPC – Safe, Affordable, and Efficient, St. Louis, Missouri, May 5<sup>th</sup>, 2008.
- TP103. "Six Year Performance Evaluation of St. James, Missouri Composite Bridges," TRB Annual Conference, Washington, D.C., January 15<sup>th</sup>, 2008.
- TP104. "An Alternative Green Construction Material for Infill Wall Systems," 10<sup>th</sup> North American Masonry Conference, St. Louis, Missouri June 5<sup>th</sup>, 2007.
- TP105. "A Simplified Design Methodology Accounting for the Arching Effects in Masonry Walls Strengthened with FRP Materials and Subject to Out-of-Plane Loads," 10<sup>th</sup> North American Masonry Conference, St. Louis, Missouri June 5<sup>th</sup>, 2007. (Co-Speaker)
- TP106. "Comparative Study on the Out-Of-Plane Behavior of Retrofitted Masonry Wall Systems with Arching Action," 10<sup>th</sup> North American Masonry Conference, St. Louis, Missouri June 4<sup>th</sup>, 2007.
- TP107. "A Strength Degradation Modeling Approach to Life Expectancy of FRP Strengthened Bridges," CDCC 2007: The Third International Conference on Durability & Field Applications of Fiber Reinforced Polymer (FRP) Composites for Construction, Quebec City, Quebec, Canada, May 22<sup>nd</sup>, 2007.
- TP108. "An Analytical Approach To Predict The Out-Of-Plane Behavior of FRP Retrofitted Masonry Infill Walls With Arching Action," Proceedings for 2007 Advanced Composites in Construction, University of Bath, Bath, England, UK, April 3<sup>rd</sup>, 2007.
- TP109. "Effect of Varied Surface Roughness and Concrete Strength on the Bond Performance of FRP Fabrics," 2007 Advanced Composites in Construction, University of Bath, Bath, England, UK, April 3<sup>rd</sup>, 2007.
- TP110. "Effect of Varied Surface Roughness, Putty Thickness and Concrete Strength on the Interfacial Bond Strength of FRP to Concrete," Transportation Research Board 2007 Annual Meeting, Washington, D.C., January 23<sup>rd</sup>, 2007.
- TP111. "Long Term Monitoring of Bridges Using a Robotic Tacheometry System," NDE Conference on Civil Engineering, St. Louis, Missouri, August 16<sup>th</sup>, 2006. (Co-Speaker)
- TP112. "Durability Performance of Epoxy Injected Reinforced Concrete Beams With and Without FRP Fabrics," Structural Faults and Repair 2006, Edinburgh, Scotland, UK, June 15<sup>th</sup>, 2006.
- TP113. "Out of Plane Behavior of Masonry Infill Walls Retrofitted with a Reinforced Polymer Grid and Polyurea System," Structural Faults and Repair 2006, Edinburgh, Scotland, UK, June 14<sup>th</sup>, 2006.
- TP114. "A Worldwide Survey of Environmental Reduction Factors for Fiber Reinforced Polymers (FRP)," American Society of Civil Engineering 2006 Structures Congress, St. Louis, MO, May 20<sup>th</sup>, 2006.
- TP115. "Shrinkage Behavior of High Strength Concrete (HSC) Subjected to Accelerated Curing," American Society of Civil Engineering 2006 Structures Congress, St. Louis, MO, May 20<sup>th</sup>, 2006.
- TP116. "Behavior of FRP Reinforced Panels Subjected to Early-Age Environmental Conditioning," (Poster Session) American Society of Civil Engineering 2006 Structures Congress, St. Louis, MO, May 19<sup>th</sup>, 2006.
- TP117. "Out-of-Plane Static and Blast Resistance of Unreinforced Masonry Wall Connections Strengthened with FRP," American Concrete Institute 2005 Fall Convention, Kansas City, MO, November 7<sup>th</sup>, 2005.
- TP118. "Effect of Environmental Conditions on Bond Strength between CFRP Laminate and Concrete Substrate," American Concrete Institute 2005 Fall Convention, Kansas City, MO, November 6<sup>th</sup>, 2005.
- TP119. "Particle Size Optimization for Reduced Cement Content High Strength Concretes," Proceedings for the PCI-NBC on Bridges for Life 2005, Palm Springs, California, October 17, 2005.
- TP120. "Prestress Loss Measurements in Missouri's First Fully Instrumented High-Performance Concrete Bridge," Transportation Research Board 2005 Annual Meeting, Washington, D.C., January 13<sup>th</sup>, 2005.
- TP121. "Acousto-Ultrasonic Technology for Nondestructive Evaluation of Concrete Bridge Members Strengthened with Carbon Fiber Reinforced Plastic," Transportation Research Board 2005 Annual Meeting, Washington, D.C., January 11<sup>th</sup>, 2005.
- TP122. "Non-destructive Testing of Dallas County Bridge in Missouri, USA," 16th World Conference on Nondestructive Testing, Montreal, Canada, September 1<sup>st</sup>, 2004.
- TP123. "Use of the Total Station for Serviceability Monitoring of Bridges with Limited Access in Missouri, USA," 16th World Conference on Nondestructive Testing, Montreal, Canada, September 1<sup>st</sup>, 2004.
- TP124. "Validation of FRP Composite Technology Through Field Testing," 16th World Conference on Nondestructive Testing, Montreal, Canada, September 1<sup>st</sup>, 2004.

- TP125. "Microwave NDE of RC Beams Strengthened with CFRP Laminates Containing Surface Defects and Tested Under Cyclic Loading," 16th World Conference on Nondestructive Testing, Montreal, Canada August 31<sup>st</sup>, 2004.
- TP126. "Use of the Total Station for Load Testing of Retrofitted Bridges with Limited Access," SPIE 11<sup>th</sup> Annual International Symposium on Sensors and Smart Technologies for Civil, Mechanical, and Aerospace Systems, San Diego, California, March 18<sup>th</sup>, 2004.
- TP127. "Remote Health Monitoring System for the Dafosi Yangtze River Bridge," SPIE 11<sup>th</sup> Annual International Symposium on Sensors and Smart Technologies for Civil, Mechanical, and Aerospace Systems, San Diego, California, March 18<sup>th</sup>, 2004. (Presentation Given on Behalf of Dr. Yumei Fu)
- TP128. "Effect of Environmental Conditioning on the Fatigue Performance of RC Beams Strengthened with CFRP Bonded Laminates," American Concrete Institute 2004 Annual Spring Convention, Washington, D.C., March 15<sup>th</sup>, 2004.
- TP129. "Evaluation of the Various Environmental Conditions on Reinforced Concrete Columns Confined by FRP sheet," American Concrete Institute 2004 Annual Spring Convention, Washington, D.C., March 15<sup>th</sup>, 2004. (Co-Presenter)
- TP130. "Effect of Surface Area to Volume Ratio and Accelerated Curing on the Behavior of High Strength Concrete," High Performance Concrete 3<sup>rd</sup> International Symposium Sponsored by Prestressed /Precast Concrete Institute 2003 Annual Meeting Orlando, FL, October 21<sup>st</sup>, 2003.
- TP131. "Thermal Behavior of Missouri's First High Performance Concrete Superstructure Bridge," High Performance Concrete 3<sup>rd</sup> International Symposium Sponsored by Prestressed /Precast Concrete Institute 2003 Annual Meeting Orlando, FL, October 20<sup>th</sup>, 2003.
- TP132. "Shear and Flexural Strengthening of Masonry Infill Walls with FRP for Extreme Out-of-Plane Loading," Architectural Engineering Institute (AEI) 2003 Annual Conference Austin, TX, September 18<sup>th</sup>, 2003.
- TP133. "Blast Resistance of Un-reinforced Masonry Walls Retrofitted with Fiber Reinforced Polymers," Ninth North American Masonry Society Conference, Clemson, South Carolina June 2<sup>nd</sup>, 2003.
- TP134. "Live Load Test of High Strength Concrete Bridges," Transportation Research Board 2003 Annual Meeting, Washington, D.C., January 13<sup>th</sup>, 2003.
- TP135. "Live Load Test Results of Missouri's First High Performance Concrete Superstructure Bridge," PCI/FHWA/NCBC Concrete Bridge Conference, October 8<sup>th</sup>, 2002.
- TP136. "Effect of Surface Roughness on the Bond Performance Between FRP Laminates and Concrete", Second International Conference (CDCC 02) – Durability of Fiber Reinforced Polymer (FRP) Composites for Construction", Montreal, Quebec, Canada, May 31<sup>st</sup>, 2002.
- TP137. "Environmental Effects on Concrete-FRP Bond under Various Degrees of Sustained Loading", Second International Conference (CDCC 02) – Durability of Fiber Reinforced Polymer (FRP) Composites for Construction", Montreal, Quebec, Canada, May 30<sup>th</sup>, 2002.
- TP138. "Performance of FRP Confined Concrete Subjected To Accelerated Environmental Conditioning", Second International Conference (CDCC 02) – Durability of Fiber Reinforced Polymer (FRP) Composites for Construction", Montreal, Quebec, Canada, May 29<sup>th</sup>, 2002.
- TP139. "Instrumentation Plan and Early-Age Monitoring of High Performance Concrete Bridge Girders in Missouri," Transportation Research Board 2002 Annual Meeting, Washington, D.C., January 17<sup>th</sup>, 2002.
- TP140. "Comparative Study on the Production of Field Produced High Performance Concrete," Transportation Research Board 2002 Annual Meeting, Washington, D.C., January 14<sup>th</sup>, 2002.
- TP141. "Early-Age And Later-Age Monitoring Of High Performance Bridges In Missouri," 2001 ACI Fall Convention, Dallas, TX, October 28<sup>th</sup>, 2001.
- TP142. "Permeability Performance of High Performance Concrete Subjected to Various Curing Regimes," Transportation Research Board, Washington, D.C., January 10<sup>th</sup>, 2001.
- TP143. "The Use of the Maturity Method as a Quality Control Tool for High Performance Concrete Bridge Decks," PCI/FHWA/FIB International Symposium on High Performance Concrete, September 26<sup>th</sup>, 2000.
- TP144. "An Assessment of Flexural Behavior of CFRP Prestressed Beams Subjected to Incremental Static Loading," ASCE 2000 Structures Congress, Philadelphia, PA, May 10<sup>th</sup>, 2000.
- TP145. "An Assessment of In-Situ FRP Shear and Flexural Strengthening of Reinforced Concrete Joists," ASCE 2000 Structures Congress, Philadelphia, PA, May 9<sup>th</sup>, 2000.
- TP146. "An In-Situ Evaluation of FRP Strengthened Unreinforced Masonry Walls Subjected to Out-Of-Plane Loading," ASCE 2000 Structures Congress, Philadelphia, PA, May 9<sup>th</sup>, 2000.
- TP147. "Smart Pseudo-Ductile FRP Rebar for Concrete," ACI Annual Fall Meeting, Baltimore, Maryland - October 31<sup>st</sup>, 1999.
- TP148. "Permeability and Durability Aspects of HPC Precast/Prestressed Beams and Bridge Decks in Texas," PCI Annual Meeting, Atlanta, Georgia - October 21<sup>st</sup>, 1998.

- TP149. "Material and Mechanical Properties of Texas High Performance Concrete Bridges," ACI Spring Meeting, Houston, Texas - March, 23<sup>rd</sup>, 1998.
- TP150. "Permeability of High Performance Concrete: Rapid Chloride Ion Test vs. Chloride Ponding Test," PCI Annual Meeting, New Orleans, Louisiana - October 21<sup>st</sup>, 1997.

## **INVITED SEMINAR PRESENTATIONS:**

- ISP1. "The Role of Ethics as an Engineer," Order of the Engineer Ethics Presentation for the Missouri S&T Chapter, May 4<sup>th</sup>, 2015.
- ISP2. "The Role of Ethics as an Engineer," Order of the Engineer Ethics Presentation for the Missouri S&T Chapter, May 7<sup>th</sup>, 2014.
- ISP3. "Structural Health Monitoring & Non-Destructive Evaluation: In-Situ Load Testing and Instrumentation for Advanced Construction Material Applications," RE-CAST Center Inaugural Research Seminar, Rolla, Missouri, March 5<sup>th</sup>, 2014.
- ISP4. "The Role of Ethics as an Engineer," Order of the Engineer Ethics Presentation for the Missouri S&T Chapter, Dec., 2013.
- ISP5. "Structural Health Monitoring & Non-Destructive Evaluation: In-Situ Load Testing and Instrumentation for Bridge Condition Assessment," SHM-NDE Workshop/Webinar, Rolla, Missouri August 6, 2013.
- ISP6. "The Role of Ethics as an Engineer," Order of the Engineer Ethics Presentation for the Missouri S&T Chapter, April 25<sup>th</sup>, 2012.
- ISP7. "The Role of Ethics as an Engineer," Order of the Engineer Ethics Presentation for the Missouri S&T Chapter, April 25<sup>th</sup>, 2011.
- ISP8. "Missouri S&T – Discover, Create, Innovate" University of Naples, Naples, Italy, December 14, 2010.
- ISP9. "Utilization of Composites Technology for Infrastructure Renewal," Missouri University of Science and Technology, Rolla, Missouri, December 4<sup>th</sup>, 2008.
- ISP10. "A New Green Construction Material Developed for the Built Infrastructure," Missouri S&T Architectural Engineering Institute, Rolla, Missouri, March 5<sup>th</sup>, 2008.
- ISP11. "Construction Failures including the I35W Bridge Collapse," University of Missouri-Rolla, Rolla, Missouri, September 6<sup>th</sup>, 2007.
- ISP12. "Field Strengthening and Validation of FRP Composite and UMR's UTC," University of Missouri-Rolla, Rolla, Missouri, August 23<sup>rd</sup>, 2007.
- ISP13. "Construction Failures: Lessons Learned," Architectural Engineering Institute, Rolla, MO, April 13, 2006.
- ISP14. "Why, When, and How to Offer a Distant Education Course," New Faculty Teaching Scholars Program, Rolla, Missouri, November 10<sup>th</sup>, 2004.
- ISP15. "Structural Engineering at The University of Missouri-Rolla," Presentation for the Ceramics Engineering Graduate Student Seminar at UMR, April 4<sup>th</sup>, 2002.
- ISP16. "High Performance Concrete for Missouri Bridge Structures," American Society of Civil Engineers, University of Missouri-Rolla, Rolla, Missouri, March 7<sup>th</sup>, 2001.
- ISP17. "Architectural Engineering at UMR," American Society of Civil Engineers, University of Missouri-Rolla, Rolla, Missouri, March 7<sup>th</sup>, 2001.

## **HONORS AND AWARDS:**

### ***NATIONAL / INTERNATIONAL***

- 2018 The Masonry Society Technical Activities Committee Service Recognition** – Annual TMS Awards Banquet Cleveland, OH recognition October 4, 2018.
- 2018 International Institute for FRP in Construction (IIFC) Fellow** – 35<sup>th</sup> Society Member Fellow Elected by IIFC Notified July 20, 2018.
- 2018 Outstanding Elsevier Reviewer Award** – Received 2017 Outstanding Reviewer Award from Elsevier's Construction and Building Materials Journal recognition April 24, 2018.
- 2017 Chi Epsilon Honor Society Chapter Honor Member** – Received Chi Epsilon National Civil Engineering Beta Chapter Honor Member recognition April 29, 2017.
- 2017 Inaugural Joseph H. Senne, Jr. Academy of Civil Engineers Faculty Scholarly Achievement Award** – MST Academy of Civil Engineers Presented April 21, 2017.

**2016 AEI Outstanding Educator Award** – Received Society Outstanding Educator award April 6, 2017 and presented April 13, 2017 in Oklahoma City, OK at the AEI Conference.

**2016 SCMT4 Outstanding Paper Award** – Received outstanding paper award at the 4<sup>th</sup> Sustainable Construction Materials and Technologies Conference, August, 2016.

**2014 The Masonry Society (TMS) Fellow** – 33<sup>rd</sup> Society Member Fellow Elected by The Masonry Society Presented October 11, 2014.

**2014 ASCE Professional Recognition Award** Presented September 20<sup>th</sup>, 2014 at the 100<sup>th</sup> St. Louis Section Year Gala Ceremony.

**2011-2012 Daniel P. Jenny Research Fellowship**, Precast / Prestressed Concrete Institute (w/Dr. J.S. Volz)

**2011 U.S. Professor of the Year Award Nominee** – Carnegie Foundation, Sept. 2011.

**2010 American Concrete Institute (ACI) – Committee Member of the Year (2009) Award** – American Concrete Institute EAC Presented March 20, 2010.

**2010 Society of American Military Engineers (SAME) – Engineering Award** – SAME Presented February 13, 2010.

**2009 Elected Tau Beta Pi (TBPI) Emanate Engineer Representing Missouri Beta Chapter**

**2008-2009 Cambridge Who’s Who Among Executives and Professionals: Honors Edition**

**2008-2009 Madison’s Who’s Who Among Executives and Professionals: Honors Edition**

**2008 Strathmore’s Who’s Who<sup>®</sup>, 2008 Edition**

**2008 American Society of Civil Engineers Fellow** – American Society of Civil Engineers Presented April 30, 2008.

**2007 American Concrete Institute Fellow** – American Concrete Institute Presented April 22, 2007.

**2007 Joseph H. Senne, Jr. Academy of Civil Engineers Faculty Achievement Award** – MST Academy of Civil Engineers Presented April 20, 2007.

**2007 The Masonry Society Award** – Leadership Award Presented November 10, 2007.

**2007 Who’s Who Among America’s Teachers<sup>®</sup>, 2007 – 11<sup>th</sup> Edition**

**2006 Walter P. Moore Jr., Faculty Achievement Award** – American Concrete Institute Presented March 26, 2006.

**2006 IBC Leading Engineers of the World<sup>®</sup>, 2006 Edition**

**2006 National’s Who’s Who<sup>®</sup>, 2006 Edition**

**2005-2006 Empire Who’s Who Among Executives and Professionals in Engineering 2005-2006 Honors Edition**

**2006 Who’s Who Among America’s Teachers<sup>®</sup>, 2006 – 10<sup>th</sup> Edition**

**2005-2006 National Register’s Who’s Who Among In Executives and Professionals<sup>®</sup>, 2005-2006 Edition**

**2005 Who’s Who Among America’s Teachers<sup>®</sup>, 2005 – 9<sup>th</sup> Edition**

**2004 Dwight D. Eisenhower Faculty Fellowship**

**2004 Who’s Who Among America’s Teachers<sup>®</sup>, 2004 – 8<sup>th</sup> Edition**

**2003 9<sup>th</sup> North American Masonry Society Best Publication Award** – Honorable Mention Award

**2002 Transportation Research Board Practical Paper Selection**

**2002 NSPE Engineering Education Excellence Award** – Nominated as National Finalist

**2002-2001 Strathmore’s Who’s Who<sup>®</sup>, 2001-2002 Edition**

**2001 Who’s Who Among America’s Teachers<sup>®</sup>, 2001 – 5<sup>th</sup> Edition**

**2001 NSPE Engineering Education Excellence Award** – Nominated as National Finalist

**2001 American Concrete Institute Construction Practice Award Paper** – 2<sup>nd</sup> Place

**2000 NSPE Engineering Education Excellence Award** – Nominated as National Finalist

**1998 National Science Foundation Fellowship** - Recipient of NSF Fellowship US / Australia Joint HPC Workshop – Sydney, Australia

## **REGIONAL**

**2001 Regional Science Olympiad Award of Excellence**

## **UNIVERSITY**

**2018 Missouri S&T Faculty Research Award** – University Wide, Missouri University of Science and Technology, Recognized: December 4, 2018.

**2018 Missouri S&T Faculty External Recognition Award** – University Wide, Missouri University of Science and Technology, Recognized: May 22, 2018.

**2016 Missouri S&T Outstanding Teaching Commendation** – University Wide, Missouri University of Science and Technology, Recognized: Fall Semester 2016.

**2015 Missouri S&T Outstanding Teaching Commendation** – University Wide, Missouri University of Science and Technology, Recognized: Fall Semester 2015.

**2015 Missouri S&T Faculty Excellence Award** – University Wide, Missouri University of Science and Technology, Recognized: February 22<sup>nd</sup>, 2016.

**2015 Missouri S&T Graduate Council Service Award** – University Wide, Missouri University of Science and Technology, Recognized: April 24<sup>th</sup>, 2015.

**2014 Missouri S&T Outstanding Teaching Commendation** – University Wide, Missouri University of Science and Technology, Recognized: Fall Semester 2014.

**2013 Missouri S&T Faculty Service Award** – University Wide, Missouri University of Science and Technology, Recognized: February 11, 2014.

**2012 Missouri S&T Faculty Research Award** – University Wide, Missouri University of Science and Technology, Recognized: February 12, 2013.

**2011-2010 Missouri S&T Outstanding Teaching Award of Excellence (Global Learning)** – University Wide, Missouri University of Science and Technology, Recognized: May 4, 2011.

**2010 Missouri S&T Faculty Excellence Award** – University Wide, Missouri University of Science and Technology, Recognized: February 8, 2011.

**2010 Missouri S&T Outstanding Teaching Award** – University Wide, Missouri University of Science and Technology, Recognized: November 15, 2010.

**2009-2008 Missouri S&T Outstanding Teaching Commendation** – University Wide, Missouri University of Science and Technology, Recognized: March 2010.

**2009-2008 Missouri S&T Outstanding Teaching Award of Excellence (Global Learning)** – University Wide, Missouri University of Science and Technology, Recognized: April 29, 2009.

**2008-2007 Missouri S&T Outstanding Teaching Commendation** – University Wide, Missouri University of Science and Technology, Recognized: March 31, 2009.

**2008 Missouri S&T Faculty Excellence Award** – University Wide, Missouri University of Science and Technology, Recognized: December 16, 2008.

**2008-2007 Missouri S&T Outstanding Academic Advisor Award** – University Wide, Missouri University of Science and Technology, Recognized: April 29, 2008.

**2007 Nominated and Finalist UMR School of Engineering Academic Advising Award** – University of Missouri-Rolla

**2006 Ultimate UMR Faculty Excellence Award** – University of Missouri-Rolla

**2006-2005 Burns & McDonnell Faculty Excellence Award** – University of Missouri-Rolla

**2005 UMR Outstanding Teaching Award – School of Extended Learning** – University of Missouri-Rolla

**2004-2003 Burns & McDonnell Faculty Excellence Award** – University of Missouri-Rolla

**2004 MSM-UMR Alumni Association Outstanding Advisor Award**

**2003-2002 Gary and Sherry Forsee Faculty Excellence Award** – University of Missouri-Rolla

**2002-2001 Burns & McDonnell Faculty Excellence Award** – University of Missouri-Rolla

**2001-2000 Faculty Excellence Award** – University of Missouri-Rolla

**2001 Faculty Shares Award** – University of Missouri-Rolla

**2001 Faculty Bonus Award** – School of Engineering, University of Missouri-Rolla

**2001-2002 Faculty Scholar Program** – University of Missouri-Rolla

**2000 – Chi Epsilon National Honor Society** – University of Missouri-Rolla

**1997, 1998 J. Neils Thompson Civil Engineering Scholarship - The University of Texas at Austin**

**1983 Campus Wide Academic/Activity Award - The Pennsylvania State University**

## **DOCTORAL DISSERTATION ADVISOR:**

### **COMPLETED**

Dr. Eli Saul Hernandez, Doctor of Philosophy, Title: “SERVICE RESPONSE AND EVALUATION OF PRESTRESSED CONCRETE BRIDGES THROUGH LOAD TESTING,” Department of Civil, Architectural, and Environmental Engineering, Missouri S&T, Rolla, Missouri, pp. 213; Completed May 2018.

Dr. Zuhair Al-Jaberi, Doctor of Philosophy, Title: "STRENGTHENING OF REINFORCED MASONRY WALLS SUBJECTED TO OUT-OF-PLANE PSEUDO-STATIC LOAD USING ADVANCED COMPOSITE," Department of Civil, Architectural, and Environmental Engineering, Missouri S&T, Rolla, Missouri, pp. 285; Completed May 2018.

Dr. Hayder Alghazali, Doctor of Philosophy, Title: "BEHAVIOR AND TEMPORAL-BASED EFFECTS OF SUSTAINABLE SELF-CONSOLIDATING CONCRETE IN BRIDGE STRUCTURES," Department of Civil, Architectural, and Environmental Engineering, Missouri S&T, Rolla, Missouri, pp. 301; Completed May 2018.

Dr. Wei Wang, Doctor of Philosophy, Title: "DURABILITY BEHAVIOR OF STEEL REINFORCED POLYMER AND FIBER REINFORCED POLYMER FOR INFRASTRUCTURE," Department of Civil, Architectural, and Environmental Engineering, Missouri S&T, Rolla, Missouri, Graduation Date – August 2017.

Dr. Zena R. Al-Jazaeri, Doctor of Philosophy, Title: "REHABILITATION AND STRENGTHENING OF REINFORCED CONCRETE MEMBERS USING A FIBER REINFORCED CEMENTITIOUS MATRIX COMPOSITE," Department of Civil, Architectural, and Environmental Engineering, Missouri S&T, Rolla, Missouri, Graduation Date – Dec. 2016.

Dr. Mohamed Aboel Seoud, Doctor of Philosophy, Title: "AN INTEGRATED STUDY FOR HYBRID COMPOSITE BEAM (HCB) STRUCTURES," Department of Civil, Architectural, and Environmental Engineering, Missouri S&T, Rolla, Missouri, pp. 379, Defended Dec. 2014, Graduation Date – May 2015.

Dr. Wei Zheng, Doctor of Philosophy, Title: "BEHAVIOR OF ADVANCED INNOVATIVE MATERIALS FOR IMPROVED LONG-TERM BRIDGE PERFORMANCE," Department of Civil, Architectural, and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 354, Completed Defense Date: September 6, 2012. Graduation Date – December 2012.

Dr. Natalia Carey, Doctor of Philosophy, (PhD GAANN Student / Chancellor's Fellowship PhD Student), Title: "DISCRETE FIBER-REINFORCED POLYUREA SYSTEMS FOR INFRASTRUCTURE STRENGTHENING AND BLAST MITIGATION," Department of Civil, Architectural, and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 322, Completed – May 2012. MS Completed – May 2009.

Dr. Jared E. Brew, Doctor of Philosophy, (PhD GAANN Student / NUTC Fellowship PhD Student), Title: "OPTIMIZATION AND BEHAVIOR OF HIGH-PERFORMANCE CONCRETE IN STRUCTURAL APPLICATIONS," Department of Civil, Architectural, and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 222, Completed – May 2009. MS Completed – May 2006.

Dr. Mahmut Ekenel, Doctor of Philosophy, Title: "DURABILITY PERFORMANCE OF ADVANCED CONSTRUCTION MATERIALS," Department of Civil, Architectural, and Environmental Engineering, University of Missouri-Rolla, Rolla, Missouri, pp.170; Completed – December 2004.

Dr. Yumin Yang, Doctor of Philosophy, Title: "FIELD AND LABORATORY PERFORMANCE OF PRESTRESSED HIGH PERFORMANCE CONCRETE GIRDERS FOR MISSOURI BRIDGE STRUCTURES," Department of Civil, Architectural, and Environmental Engineering, University of Missouri-Rolla, Rolla, Missouri, pp.415; Completed – December 2003.

Dr. Danielle K. Stone, Doctor of Philosophy, Title: "INVESTIGATION OF FRP MATERIALS FOR BRIDGE CONSTRUCTION," Department of Civil, Architectural, and Environmental Engineering, University of Missouri-Rolla, Rolla, Missouri, pp.213; Completed – August 2002, (Co-advised with Dr. A. Nanni).

### **IN PROGRESS**

Mr. Ali Al-Khafaji, PhD Candidate, Topic: "IN-SITU FIELD AND DURABILITY PERFORMANCE OF NON-METALLIC BRIDGE REINFORCING AND REPAIR TECHNOLOGIES," Department of Civil, Architectural, and Environmental Engineering, Missouri S&T, Rolla, Missouri, Anticipated Graduation Date – May 2020.

Mr. Fan Zhang PhD Student, Topic: "EVALUATION OF HIGHLY SUSTAINABLE FIBER REINFORCED SELF-CONSOLIDATING CONCRETE," Department of Civil, Architectural, and Environmental Engineering, Missouri S&T, Rolla, Missouri, Anticipated Graduation Date – May 2021.

### **PHD COMMITTEE MEMBER**

Dr. Myers typically serves on an average of ~ 4-7 PhD Committees for other faculty members on campus in any given academic year. He has also served as an external reviewer for PhD students externally.

### **MASTER'S THESIS ADVISOR:**

#### **COMPLETED**

Mr. Michael Janke, MS Title: "FIELD INVESTIGATION OF CEMENT-BASED COMPOSITE STRENGTHENING TECHNOLOGIES," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, Completed – Dec. 2018.



Mr. Yusuf Alper Cinar, MS Title: "THE IMPORTANCE OF CHEMICAL GROUTING MATERIALS FOR OPTIMUM MECHANICAL PERFORMANCE WITH DIFFERENT SOIL CONDITIONS," Department of Geological Sciences, Geological and Petroleum Engineering, Missouri University of Science and Technology, Rolla, Missouri, Completed – May 2018. (Co-Advised with Dr. N. Maerz, GGPE).

Mr. Saipavan Rallabhandji, MS Title: "Evaluation of ULTRA-HIGH PERFORMANCE CONCRETE (UHPC) IN BRIDGE GIRDERS," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, Completed – May 2016.

Mr. Valter Gora Venancio, MS Title: "Behavior of ULTRA-HIGH PERFORMANCE CONCRETE (UHPC) BRIDGE DECK PANELS COMPARED TO CONVENTIONAL STAY-IN-PLACE DECK PANELS," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, Completed – May 2016.

Ms. Kaylea A. Smith, MS Title: "ADVANCED SUSTAINABLE CONCRETE MATERIALS FOR INFRASTRUCTURE APPLICATIONS," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 343, Completed – December 2015.

Ms. Alexander M. Griffin, MS Title: "SHEAR BEHAVIOR OF HIGH STRENGTH SELF-CONSOLIDATING CONCRETE IN NU BRIDGE GIRDERS," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 208, Completed – December 2014.

Ms. Julie Willey, MS Title: "USE OF ULTRA-HIGH PERFORMANCE CONCRETE TO MITIGATE IMPACT AND EXPLOSIVES THREATS," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 204, Completed – December 2013.

Ms. Nathan Muncy, MS Title: "FIELD PERFORMANCE OF ALTERNATIVE AND COST EFFECTIVE CAST IN PLACE AND PRECAST PRESTRESSED CONCRETE BRIDGE APPROACH SLABS," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 208, Completed – May 2013.

Mr. Eric Sells, MS Title: "SELF-CONSOLIDATING CONCRETE FOR INFRASTRUCTURE ELEMENTS: SHEAR CHARACTERISTICS," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 239, Completed – August 2012.

Mr. Brian Tucker, MS Title: "Investigation of the Effects of SHRINKAGE, CREEP, AND ABRASION ON SELF CONSOLIDATED CONCRETE AND HIGH VOLUME FLY ASH CONCRETE FOR USE IN TRANSPORTATION RELATED INFRASTRUCTURE," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 123, Completed – August 2012.

Mr. Kyle Holman, (Co-Advised with Dr. Jeffery Volz) MS Title: "HARDENED MECHANICAL PROPERTIES AND DURABILITY PERFORMANCE OF SPECIALIZED CONCRETES," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 226, Completed – August 2012.

Mr. Anthony Wulfers, MS Title: "USE OF HIGH-VOLUME FLY ASH-WOOD FIBER AND POLYUREA LAYERS FOR BLAST MITIGATION," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 173, Completed – August 2012.

Mr. Levi Smith, MS Title: "IED CRATER REPAIR FOR ENDURING ROUTE REMEDIATION: LABORATORY STUDIES OF TAMPER DETECTION MATERIALS," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 212, Completed – May 2011.

Mr. Daniel R. Kienitz, MS Title: "IED CRATER REPAIR FOR ENDURING ROUTE REMEDIATION: LABORATORY STUDIES OF REPAIR MATERIALS," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 174, Completed – December 2010.

Ms. Courtney E. Greene, MS Title: "GLASS FIBER-REINFORCED POLYUREA STRENGTHENING OF REINFORCED CONCRETE," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 232, Completed – December 2010.

Mr. Kurt Bloch, MS Title: "INNOVATIVE CONCRETE BRIDGING SYSTEMS FOR PEDESTRIAN BRIDGES: IMPLEMENTATION AND MONITORING," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 274, Completed – December 2010.

Ms. Natalia Carey, MS Title: "BLAST AND IMPACT RESISTANCE OF HYBRID SYSTEMS FOR BARRIER AND WALL PANEL APPLICATIONS," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 209, Completed – May 2009.

Mr. Youske Tanizawa, MS Title: "IN-PLANE BEHAVIOR OF STRENGTHENED UNREINFORCED MASONRY INFILL WALLS WITH ALTERNATIVE WOOD-FIBER FLY ASH MATERIALS," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 96, Completed – May 2009.

Ms. Wendy Moore, MS Title: "PERFORMANCE OF FIRE DAMAGED PRESTRESSED CONCRETE BRIDGES," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 139, Completed – December 2008.

Mr. David Holdener, MS Title: "LONG-TERM MONITORING OF BRIDGES STRENGTHENED AND CONSTRUCTED WITH FIBER REINFORCED POLYMER TECHNOLOGIES," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, pp. 137, Completed – August 2008.

- Mr. Trevor Hrynyk, MS Title: "OUT-OF-PLANE BEHAVIOR OF MASONRY WALL SYSTEMS WITH FRP RETROFITTING," Department of Civil, Architectural, & Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri, pp. 187, Completed – August 2007.
- Mr. Matthew Tinsley, MS Title: "INVESTIGATION OF A HIGH VOLUME FLY ASH-WOOD FIBER MATERIAL SUBJECT TO LOW-VELOCITY IMPACT AND BLAST LOADS," Department of Civil, Architectural, & Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri, pp. 167, Completed – May 2007.
- Mr. Amol Sawant, MS Title: "LIFE EXPECTANCY OF FRP STRENGTHENED BRIDGES," Department of Civil, Architectural, & Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri, pp. 135, Completed – May 2007.
- Mr. Nathan Branham, MS Title: "SECONDARY REINFORCEMENT REQUIREMENTS FOR CONCRETE REINFORCED WITH GFRP," Department of Civil, Architectural, & Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri, pp. 176, Completed – August 2006.
- Ms. Nidhi Joshi, MS Title: "Investigation of an Alternative Wood Fiber-Fly Ash Material for Infill Wall Systems," Department of Civil, Architectural, & Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri, Graduation Date – December 2005.
- Mr. Wesley Merkle, MS, Title: "LOAD DISTRIBUTION AND RESPONSE OF BRIDGES RETROFITTED WITH VARIOUS FRP SYSTEMS," pp.184; Completed – December 2004.
- Mr. Jason Jeffries, MS, Title: "BOND BEHAVIOR OF FRP LAMINATES TO CONCRETE SUBJECTED TO VARIED SURFACE PREPARATION," pp.94; Completed – May 2004.
- Mr. Ishwor Gurung, MS, Title: "SHRINKAGE BEHAVIOR OF HIGH-STRENGTH CONCRETE SUBJECTED TO ACCELERATED CURING AND VOLUME TO SURFACE AREA RATIO," pp.261; Completed – December 2003.
- Mr. Preston Carney, MS, Title: "OUT-OF-PLANE STATIC AND BLAST RESISTANCE OF UN-REINFORCED MASONRY WALL CONNECTIONS STRENGTHENED WITH FRP," pp.120; Completed – August 2003.
- Mr. Daniel Koenigsfeld, MS, Title: "SECONDARY REINFORCEMENT FOR FRP REINFORCED CONCRETE PANELS," pp.135; Completed – August 2003.
- Mr. Xianlin Shen, MS, Title: "EFFECT OF SURFACE ROUGHNESS AND PUTTY THICKNESS ON THE BOND PERFORMANCE OF FRP LAMINATES," pp.181; Completed – May 2003.
- Mr. Ji Shen, MS, Title: "THE INFLUENCE OF SURFACE TO AREA RATIO ON THE QUALITY CONTROL OF HIGH STRENGTH CONCRETE," pp.231; Completed – August 2002.
- Mr. Khaled El-Domiatiy, MS, Title: "BLAST RESISTANCE OF UN-REINFORCED MASONRY WALLS RETROFITTED WITH FIBER REINFORCED POLYMERS," pp.119; Completed – May 2002, (Co-advised with Dr. A Belarbi).
- Mr. Sharath S. Murthy, MS, Title: "DURABILITY PERFORMANCE OF FRP STRENGTHENED CONCRETE," pp.159; Completed – May 2002, Rolla, Missouri.
- Ms. Poornima R. Chepur, MS, Title: "CONCRETE ROUGHNESS PROFILE CHARACTERIZATION USING LASER PROFILOMETRY FOR BETTER BOND STRENGTH WITH FIBER REINFORCED POLYMERS," pp.89; Completed – December 2000, (Co-advised with Dr. N. Maerz).
- Mr. Raghu H. Annaiah, MS, Title: "SHEAR PERFORMANCE OF RC BEAMS STRENGTHENED IN-SITU WITH COMPOSITES," pp.136; Completed – December 2000, (Co-advised with Dr. A. Nanni).
- Ms. Danielle K. Stone, MS, Title: "INVESTIGATION OF CRACKING IN CONTINUOUS PRESTRESSED CONCRETE I-GIRDER BRIDGES," pp.143; Completed – December 1999, (Co-advised with Dr. A. Nanni).

### ***IN PROGRESS***

- Ms. Cheryl Renee Earley, MS Candidate, Topic: "FIELD BEHAVIOR OF HYBRID-COMPOSITE BRIDGES IN MISSOURI," Department of Civil, Architectural, & Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri, Anticipated Graduation Date – Dec. 2018.

### ***TRANSFER STUDENTS***

- Ms. Thara Viswanath, Research Topic at UMR: "APPROPRIATE ENVIRONMENTAL REDUCTION FACTORS FOR FRP," Department of Civil, Architectural, & Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri, Transferred to Penn State University – June 2005.

### ***MS COMMITTEE MEMBER***

- Dr. Myers typically serves on an average of ~ 4-9 MS Committees for other faculty members on campus in any given academic year.

## MASTER'S NON-THESIS ADVISOR:

Mr. Jared E. Brew, MS-NT Title: "PARTICLE SIZE OPTIMIZATION FOR HIGH STRENGTH CONCRETE," Department of Civil, Architectural, and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri, pp. 26, Completed – May 2006.

Mr. Aaron J. Groff, MS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri, Completed May 2004.

Mr. Steve L. Stack, MS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri, Completed – December 2006.

Mr. Jacob W. Thompson, MS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri, Completed – May 2003.

Mr. Anand Khataukar <sup>♫</sup>, MS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri, Completed – May 2002.

<sup>♫</sup> - Non-Thesis Report Option Title: "BEHAVIOR OF FRP-CONCRETE BOND SUBJECTED TO ENVIRONMENTAL CONDITIONING DURING INSTALLATION PROCESS," pp.43;

## UNDERGRADUATE RESEARCH / ASSISTANTSHIPS:

### COMPLETED

Mr. Nickolas Janke, BS Candidate, Freshman Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – UGR Summer, Fall 2018) *Topic – Microwave NDE Technology to Predict Concrete Compressive Strength and Bond Testing of NSM FRP Bars under Varied Service Temperatures.*

Mr. Devin Olds, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – Spring and Summer 2018) *Topic – FRC Bond Behavior under Varied Service Temperature, Undergraduate Research Lab Assistant).*

Ms. Sarah Reynolds, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – Summer and Fall 2017) *Topic – Eco Concrete, Undergraduate Research Lab Assistant).*

Mr. Amartuvshin Ganzorig, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – Summer and Fall 2017) *Topic – Eco Concrete, Undergraduate Research Lab Assistant).*

Mr. Michael Janke, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – UGR Summer 2013, Summer 2014, Fall 2014, Spring 2015, Summer 2015, Fall 2015, Spring 2016, Summer 2016, Fall 2016) *Topic – HS-SCC and HVFAC Bridges, Composite Materials for Infrastructure, Summer Programs; Undergraduate Research Course Fall 2016.*

Mr. Alex J. Harris, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – UGR Summer 2015) *Topic – HS-SCC and HVFAC Bridges, Composite Materials for Infrastructure, Summer Programs.*

Mr. Andrew Larkins, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – UGR Summer 2014, Fall 2014) *Topic – HS-SCC and HVFAC Bridges, Composite Materials for Infrastructure, Summer Programs.*

Mr. Reed S. Norphy, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – UGR Summer 2013, Fall 2013, Fall 2014) *Topic – HS-SCC and HVFAC Bridges, Composite Materials for Infrastructure, Summer Programs.*

Ms. Holly R. Douglas, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – UGR Summer 2012,) *Topic – Field Load Testing of PC Panels, Hybrid Composite HC Beam Bridges, Summer Programs.*

Ms. Adrienne E. Kruse, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – UGR Summer 2012) *Topic – UHPC Blast Mitigation, Summer Programs.*

Ms. Hope Mooberry, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – UGR Spring 2010, Summer 2010, Fall 2010, Spring 2011) *Topic – Rapid Set Concrete, Polyurea Coated Studies, Summer Programs, IRES in Naples, Italy.*

Mr. Patrick Graves, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – UGR Summer 2011, Fall 2011) *Topic – HS-SCC and Self-Consolidated Concrete, HVFA Concrete, Summer Programs.*

- Mr. Dane M. Shaw, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – Summer 2010) *Topic – GFRP Scaled Columns in Naples, Italy.*
- Ms. Renee D. Moreland, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – Summer 2010) *Topic – Experimental Testing of Phenolic Glass Composites in Naples, Italy.*
- Mr. Aaron Trenshaw, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – Summer 2010) *Topic – Spiral Reinforced Scaled Columns in Naples, Italy.*
- Ms. Michelle R. Scheibel, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – Summer 2010) *Topic – Reconstruction Monitoring in L'Aquila, Italy.*
- Mr. Aaron Folken, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – Summer 2010) *Topic – Reconstruction Monitoring in L'Aquila, Italy.*
- Ms. Amanda Heady, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – UGR Spring and Summer 2010) *Topic – Rapid Set Concrete, Polyurea Coated Studies, Summer Programs.*
- Ms. Sarah Stach, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – UGR Spring and Summer 2010) *Topic – Rapid Set Concrete, Polyurea Coated Studies, Summer Programs.*
- Mr. Matthew Struempf\*, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – CE 390 Fall 2009 / OURE 2009-2010) *Topic – Rapid Set Concrete.*
- Mr. Travis Hemsath\*, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – ArchE 390 Fall 2009 / OURE 2009-2010) *Topic – Rapid Set Concrete.*
- Ms. Krista Porterfield, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – UGR Fall 2009, Spring 2010) *Topic – Polyurea Composite Systems for Multi-Hazard Mitigation.*
- Mr. Jordan Tripp\*, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – ArchE 390 Fall 2009 / OURE 2009-2010) *Topic – New Laboratory Development for ArchE-CE 217 Structural Analysis I.*
- Mr. Brandon Bealmear, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology, Rolla, Missouri (Advisor – CE 390 Spring 2008) *Topic – Corrosion Behavior of Polyurea Coated Steel Members: Pilot Study.*
- Mr. Mark Smedvig\*, BS Candidate, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla/Missouri University of Science and Technology, Rolla, Missouri (Advisor – OURE 2007-2008) *Topic – Shear Strength of SCC High Strength Concrete Members.*
- Mr. Michael J. Garrard, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri S&T, Rolla, Missouri (Research Assistant Summer 2008 and 2009) *Topic – Undergraduate Recruitment from Traditionally Underrepresented Groups.*
- Mr. Joe Mizulski\*, BS Candidate, Department of Civil, Architectural and Environmental Engineering, Missouri S&T, Rolla, Missouri (Advisor – CE 390H Spring 2007 / OURE 2007-2008) *Topic – Pull-out Strength of Screw Systems in Alternative Masonry Blocks.*
- Ms. Cassie Golden, BS Candidate, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 Fall 2006 / Spring 2007) *Topic – Long-term Crack Development in Minimum Reinforced FRP Panels.*
- Ms. Nicole Stucky, BS Candidate, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Research Assistant Summer 2007) *Topic – Undergraduate Recruitment from Traditionally Underrepresented Groups.*
- Mr. Matthew Beyer\*, BS Candidate, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – OURE 2006-2007) *Topic – Durability Performance of Wrapped FRP Systems.*
- Ms. Wendy Moore♥\*, BS, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 / OURE 2006-2007) *Topic – Durability Performance of Bonded FRP Systems for Prestressed Concrete Element Repair.*
- Mr. Joseph Filla\*, BS, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Research Assistant Summer 2005-Summer 2006; Advisor – CE 390 Fall 2005 / OURE 2006) *Topic – Behavior of Reinforced Concrete Members with Wood Fibers.*

- Mr. Reid Catt\*, BS, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 Winter/Spring 2004; OURE Winter/Spring – Fall 2005) *Topic – Shrinkage Behavior of Wood Fiber – Fly Ash Blend Material Development.*
- Mr. Bryan Kemper, BS, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Research Assistant Fall 2004 – Spring 2005) *Topic – Wood Fiber – Fly Ash Blend Material Development.*
- Mr. Nathan D. Branham♥\*, BS, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 Winter/Spring 2003) (Research Assistant Fall 2003 – Spring 2004). *Topic – Minimum Reinforcement in FRP Panels.*
- Mr. Reid Stephens\*, BS, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 Winter/Spring 2003) (Research Assistant Fall 2003). *Topic – Minimum Reinforcement in FRP Panels.*
- Ms. Auburn Walker, BS Candidate, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Research Assistant Fall 2002 – Fall 2003, Summer 2004). *Topic – Minimum Reinforcement in FRP Panels.*
- Mr. Cameron Schweiss, BS Candidate, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Research Assistant Summer 2004). *Topic – Minimum Reinforcement in FRP Panels.*
- Mr. Jared Brewe♥, BS, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Research Assistant Fall 2002 – Winter/Spring 2004). *Topic – Behavior of Environmental Conditioning on Fatigue Behavior of FRP Strengthened RC Beams.*
- Mr. Josh Holland, BS Candidate, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Research Assistant Winter/Spring 2003 – Fall 2003) *Topic – Creep and Shrinkage of High Performance Concrete.*
- Mr. Nathan Marshall, BS, Department of Civil, Architectural and Environmental Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 Winter/Spring 2003) *Topic – Effect of Surface Roughness on the Bond Length of Externally Bonded FRP Sheets.*
- Mr. Jason Jeffries♥, BS, MS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 Fall 2002) *Topic – Effect of Surface Roughness on the Bond Length of Externally Bonded FRP Sheets.*
- Mr. Craig Skorseth, BS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri (Research Assistant Winter/Spring 2002) *Topic – Optimization of HPC & Effect of SA/V Ratio and Accelerated Curing on HPC.*
- Mr. Dan Schulte, BS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri (Research Assistant Fall 2001 – Winter/Spring 2002)
- Mr. Daniel Koenigsfeld♥, BS, MS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 Fall 2001) *Topic – Characterization of FRP Rebars.*
- Mr. Michael Purol, BS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 Fall 2001) *Topic – Shrinkage Behavior of High-Strength Concrete.*
- Mr. William Bolte, BS, MS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri (Research Assistant Fall 2001) *Topic – Effect of Surface Roughness on Bond Performance of Externally Bonded FRP Laminates.*
- Mr. Benjamin Powelson, BS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 Summer 2001) *Topic – Optimization of HPC.*
- Mr. Matt Reichert, BS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 Summer 2001) *Topic – Blast Resistance of FRP Strengthened Unreinforced Masonry.*
- Ms. Lu Gan, BS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 Spring 2001) *Topic – Freeze Thaw and Abrasion Resistance of HPC, Chloride Penetration Adjacent to FRP Laminates.*
- Mr. Brian Sides, BS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 Fall 2000) *Topic – Effect of Air Entrainment on Durability of HPC.*
- Mr. Kyle Sims, BS, Department of Civil Engineering, The University of Missouri – Rolla, Rolla, Missouri (Advisor – CE 390 Fall 2000) *Topic – Optimization of HPC.*

♥ - Recruited as a graduate student.

\* - Received NSF sponsored OURE funding.

## POST DOC / VISITING FACULTY / SCHOLARS / EXCHANGE STUDENTS HOSTED:

### COMPLETED

- Dr. Eli Hernandez, Post Doc, Missouri University of Science and Technology, June 2018 - Present
- Dr. Hai Ran, Visiting Full Professor, Zhongyuan University of Technology, China, January-December 2017.
- Dr. Senthivel Ramakrishnan, Post-Doctoral Research Fellow, Department of Civil Engineering, School of Engineering, Azuere Campus, University of Minho, Guimaraes, Portugal, June-July 2007.
- Dr. Mahmut Ekenel, Post Doc, Missouri University of Science and Technology, 2005
- Dr. Yumin Yang, Post Doc, Missouri University of Science and Technology, 2004
- Mr. Juan Marcelo LaGamma, Montevideo, Uruguay, Universidad de la Republica. International Association for the Exchange of Students for Technical Experience (IAESTE), June-December 2003.
- Dr. Shue-Ming "Daniel" Chern, Associate Professor, Department of Civil Engineering, Chung Cheng Institute of Technology, Dahsi, Taoyuan, Taiwan 33509, Summer 2002.
- Mr. Colm Murphy, Belfast, Ireland, Queens University of Belfast, Ireland. International Association for the Exchange of Students for Technical Experience (IAESTE), Summer 2002.
- Ms. Marta Matana\*, Dubrovnik, Croatia, University of Zagreb, Zagreb, Croatia. International Association for the Exchange of Students for Technical Experience (IAESTE), Summer 2002.
- Ms. Silvia Rocca\*, Piura, Peru, Universidad de Piura, Piura, Peru. International Association for the Exchange of Students for Technical Experience (IAESTE), June-December 2002.
- Mr. Jakob Gylden, Lyngby, Denmark, Technical University of Denmark, Lyngby, Denmark. International Association for the Exchange of Students for Technical Experience (IAESTE), Summer 2001.
- Dr. Francesco Micelli, Ph.D. Candidate University of Lecce, Italy at time of Visit. Visiting Scholar at Missouri S&T, September 2000 – March 2001.
- Ms. Anja Frauenberger\*, Berlin, Germany; Brandenburg University of Technology, International Association for the Exchange of Students for Technical Experience (IAESTE), Summer 2000.

\* - Recruited to UMR/MST as a graduate student.

## PROFESSIONAL AFFILIATIONS / MEMBERSHIPS:

- Member National Society of Professional Engineers (NSPE)
- Fellow American Society of Civil Engineers (ASCE)
- Fellow American Concrete Institute (ACI)
- Member Architectural Engineering Institute (AEI)
- Fellow, International Institute for FRP in Construction (IIFC)
- Member Precast / Prestressed Concrete Institute (PCI)
- Member Structural Engineering Institute (SEI)
- Fellow The Masonry Society (TMS)
- Member The National Defense Industrial Association (NDIA)
- Member The Society for Protective Coatings (SSPC)
- Member Transportation Research Board (TRB)
- Member American Society for Engineering Education (ASEE)
- Provisional Member Council of University Transportation Centers (CUTC)

## TECHNICAL SOCIETY / AGENCY BOARDS:

- Society: **Bridge Engineering Institute (BEI) An International Technical Society** – member of the International Advisory Committee, 2017 – Present.
- Journal: **Journal Sustainability** – Editorial Board of the Journal Sustainability, 2016 – Present.
- Society: **The Masonry Society** – nationally elected to the Board of Directors for The Masonry Society, 2008 – 2013 (Re-elected for three 2-year terms, society maximum).
- Society: **The American Concrete Institute – Missouri Chapter** – elected to serve on the Board of Directors for the American Concrete Institute, 2007 – 2010.
- Agency: **Encore Building Solution, Inc.** – Chief Technology Officer and Member on the Board of Directors, 2007 – 2017.



## TECHNICAL CONFERENCES PLANNED/ORGANIZED:

Conference: **Bridge Engineering Institute Conference 2019 (BEI-2019)** – July 22<sup>nd</sup> – 25<sup>th</sup>, 2019 located in Honolulu, Hawaii, USA. **International Scientific Committee** responsible for technical review and selection of abstracts and technical papers. Conference activities February 2018 – July 2019.

Conference: **16<sup>th</sup> International Congress on Polymers in Concrete 2018** – April 29<sup>th</sup> – May 1<sup>st</sup>, 2016 held in Washington, DC. **International Scientific Committee** responsible for technical review and selection of abstracts and technical papers. Conference activities April 2017 – May 2018.

Conference: **Fifth International Conference on Durability & Sustainability of Fibre Reinforced Polymer (FRP) Composites for Construction and Rehabilitation** – July 19<sup>th</sup> – 21<sup>st</sup>, 2017 located in Sherbrooke, Quebec, Canada. **Conference Co-chair** responsible for the development of the conference including technical review and selection of abstracts and technical papers. Conference activities December 2016 – July 2017.

Conference: **13<sup>th</sup> North American Masonry Society Conference** – The Masonry Society Conference June 16<sup>th</sup>-19<sup>th</sup>, 2019 located in Salt Lake City, Utah. Approximately 250 attendees representing 25 countries. **Steering Committee** responsible for organization of the Conference. Conference activities September 2016 – June 2019.

Conference: **7<sup>th</sup> International Conference on Advanced Composite Materials in Bridges and Structures** – August 22-24 2016 held in Vancouver, British Columbia, Canada. **International Scientific Committee** responsible for technical review and selection of abstracts and technical papers. Conference activities October 2015 – August 2016.

Conference: **16<sup>th</sup> International Brick and Block Masonry Conference** – June 26<sup>th</sup>-30<sup>th</sup>, 2016 held in Padava, Italy. **International Review Committee** responsible for technical review and selection of abstracts and technical papers. Conference activities July 2015 – June 2016.

Conference: **2016 North American Conference on the Design and Use of Self-Consolidating Concrete (SCC)** and the **RILEM International Symposium on Self-Compacting Concrete (SCC)** – May 2016 held in Washington, D.C. **Scientific Committee** responsible for technical review and selection of abstracts and technical papers. Conference activities October 2015 – May 2016.

Conference: **2015 Advanced Composites in Construction (ACIC)** – June, 2015 held at the University of Cambridge, Cambridge, England, UK. **International Scientific Committee** responsible for technical review and selection of abstracts and technical papers. Conference activities October 2014 – June 2015.

Conference: **Twelfth Canadian Masonry Symposium** – June 2<sup>nd</sup> – 5<sup>th</sup>, 2013 located in Vancouver, British Columbia, Canada. **International Technical Committee** responsible for technical review and selection of abstracts and technical papers. Conference activities August 2012 – June 2013.

Conference: **Architectural Engineering Institute** – April 3<sup>rd</sup> – 5<sup>th</sup>, 2013 located in State College, PA. **International Scientific Committee** responsible for technical review and selection of abstracts and technical papers. Conference activities January 2012 – April 2013.

Conference: **Fourth International Conference on Durability & Sustainability of Fibre Reinforced Polymer (FRP) Composites for Construction and Rehabilitation** – June 20<sup>th</sup> – 22<sup>nd</sup>, 2011 located in Quebec City, Quebec, Canada. **Conference Co-chair** responsible for the development of the conference including technical review and selection of abstracts and technical papers. Conference activities December 2009 – July 2011.

Conference: **11<sup>th</sup> North American Masonry Society Conference** – The Masonry Society Conference June 5<sup>th</sup>-8<sup>th</sup>, 2011 located in Minneapolis, Minnesota. Approximately 200 attendees representing 21 countries. Organized 30 Conference Sessions. Coordinator of technical reviews of over 95 technical papers. **Conference Technical Planning Committee Member, Technical Manuscript Reviewer** responsible for overseeing planning conference activities and technical paper reviews.

Conference: **Missouri Department of Transportation (MoDOT) Research Forum** – March 10<sup>th</sup>, 2011 located at Missouri S&T in Rolla, Missouri. **Conference Coordinator** responsible for developing and coordinating the conference agenda with MoDOT including speakers, venue, etc. Conference activities December 2010 – March 2011.

Conference: **Transportation Research Board (TRB) Conference** – entitled “*Developing a Research Agenda for Transportation Infrastructure Preservation and Renewal*” November 12<sup>th</sup> – 13<sup>th</sup>, 2009 located in the Keck Center of the National Academies, Washington, D.C. **Conference Planning Committee** responsible for the development of the conference including technical review and selection of abstracts and technical papers. Conference activities September 2008 – November 2009.

Conference: **American Concrete Institute 2008 Fall Conference** – November 2<sup>nd</sup> – 6<sup>th</sup>, 2008 located in St. Louis, Missouri. Served on the **ACI Missouri Board of Directors** and the **ACI St. Louis Chapter Convention Committee**, Technical Program Sub-Committee. Also, coordinated and led efforts for Missouri S&T NUTC Sponsorship of the ACI Convention at the Missouri River™ Sponsorship level of \$7,500. Sponsorship enabled a group of Missouri S&T graduate students in structures to attend and participate in the conference. Conference activities October 2007 – November 2008.

Conference: **10<sup>th</sup> North American Masonry Society Conference** – The Masonry Society Conference June 3<sup>rd</sup>-6<sup>th</sup>, 2007 located in St. Louis, Missouri. Approximately 200 attendees representing 21 countries. Organized 30 Conference Sessions. Coordinator of technical reviews of over 95 technical papers. **Conference Co-Chair** responsible for overseeing all conference activities. Conference proposal awarded to Myers, J., Nanni, A. and Baur, S. April 2003. Conference activities June 2003 – June 2007.

## TECHNICAL / EDUCATIONAL CONFERENCE ACTIVITIES

### TECHNICAL CONFERENCE RELATED (SEE ABOVE FOR MAJOR CONFERENCE PLANNING/ORGANIZED)

- T1. Session Chair – “Innovative Techniques for Monitoring and Evaluating Concrete Bridges and Bridge Elements, Part 1 of 2” American Concrete Institute (ACI) Spring 2019 Conference, Quebec City, Quebec, Canada, March 24, 2019.
- T2. Session Chair – “Innovative Techniques for Monitoring and Evaluating Concrete Bridges and Bridge Elements, Part 2 of 2” American Concrete Institute (ACI) Spring 2019 Conference, Quebec City, Quebec, Canada, March 24, 2019.
- T3. Session Chair – “Strengthening of RC Structures Flexural Strengthening I” CICE 2018, Paris, France, July 19, 2018 (Co-Chair).
- T4. Session Chair – “Modeling & Mechanical Properties and Synthetics, Processing & Fabrication of composites and Applications of Composites” Composites Materials Congress 2018, Stockholm, Sweden, June 16, 2018.
- T5. Session Moderator – “Panel Discussion on Fiber Reinforced Polymers” National Institute of Standards & testing (NIST) Conference 2018, Gaithersburg, Maryland, May 15, 2018.
- T6. Session Moderator – “Opening Technical Session Moderator” National Institute of Standards & testing (NIST) Conference 2018, Gaithersburg, Maryland, May 15, 2018.
- T7. Session Chair – “PC with Recycled Waste” International Congress on Polymers in Concrete (ICPIC 2018), Washington DC, April 30, 2018.
- T8. Session Chair – “FRPRCS A3 Emerging FRP Systems” Fiber Reinforced Polymers in Reinforced Concrete Structures (FRPRCS-13) and American Concrete Institute (ACI) Fall 2017 Conference, Anaheim, California, October 14, 2017.
- T9. Session Chair – “Session 3” 5th International Conference on Durability of Fibre Reinforced Polymer (FRP) Composite for Construction & Rehabilitation of Structures (CDCC-5), Sherbrooke, Quebec, Canada, July 19, 2017.
- T10. Session Chair – “Session 4: GFRP Bar Manufacturer’s Installer’s & Supplier’s Perspective,” 1st International Workshop on Glass Fiber Reinforced Polymer (GFRP) Bar for Concrete Structures (IWGFRP-1), Sherbrooke, Quebec, Canada, July 18, 2017.
- T11. Presiding Chair – “FRP Compositing Innovations and Applications (Session 570),” 2017 Transportation Research Board (TRB) 2017 Annual Conference, Washington, DC, January 10, 2017. **International Event.**
- T12. Session Chair – “Field Applications - 2,” 8th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2016), Hong Kong, China, Dec. 14, 2016.
- T13. Session Chair – “Masonry Structures,” 6th International Conference on Structural Engineering, Mechanics, and Computation (SEMC 2016), Cape Town, South Africa, September 7, 2016. **International Event.**
- T14. Session Chair – “Proceedings in Honor of Professor Nanni III,” 4th International Conference on Sustainable Construction Materials and Technologies (SCMT4), Las Vegas, Nevada, Aug. 10, 2016. **International Event.**
- T15. Session Chair – “Bridges IV,” 1<sup>st</sup> International Interactive Symposium on Ultra High Performance Concrete (UHPC 2016), Des Moines, Iowa, July 20, 2016. **International Event.**
- T16. Session Chair – “Eco-Materials, Sustainability and Earthen Constructions,” 16<sup>th</sup> International Brick and Block Masonry Conference (IBMAC 2016), Padova, Italy, June 28, 2016. **International Event.**
- T17. Session Chair – “Mechanical and Physical Properties I,” 6<sup>th</sup> North American Conference on Design and Use of Self-Consolidating Concrete (SCC 2016) and 8<sup>th</sup> International RILEM Symposium on Self-Consolidating Concrete, Washington, DC, March 16, 2016. **International Event.**
- T18. Presiding Chair – “FRP Composite Field Applications, Part 2: New Structures (Session 273),” 2016 Transportation Research Board (TRB) 2016 Annual Conference, Washington, DC, January 11, 2016. **International Event.**
- T19. Session Chair – “Session 8A,” Performance-based and Life-cycle Structural Engineering Conference (PLSE 2015), Brisbane, Australia, December 11, 2015. **International Event.**
- T20. Session Chair – “Missouri S&T Transportation Infrastructure Conference Session #3,” 4<sup>th</sup> International Transportation Infrastructure Conference, St. Louis, Missouri, December 4, 2015.
- T21. Session Chair – “Damage Detection and Structure Retrofit III-4,” 8<sup>th</sup> International Structural Engineering and Construction Conference (ISEC-8), Sydney, Australia, November 24, 2015. **International Event.**

- T22. Panel Leader – “*Opportunities and Challenges for Strengthening Applications*,” 7<sup>th</sup> International Conference on Advanced Composites in Construction (ACIC 2015), St. John’s College, University of Cambridge, Cambridge, England, United Kingdom, September 10<sup>th</sup>, 2015. **International Event.**
- T23. Session Chair – “*Bridge Engineering and Bond Performance*,” 5<sup>th</sup> International Conference on Construction Materials: Performance, Innovation and Structural Implications, Whistler, British Columbia, Canada, August 20<sup>th</sup>, 2015. **International Event.**
- T24. Session Chair – “*Bridge Decks & Seismic Strengthening of Bridges*,” 16<sup>th</sup> European Bridge Conference, Edinburgh, Scotland, United Kingdom, June 25<sup>th</sup>, 2015. **International Event.**
- T25. Session Chair – “*Recycled Materials Session C-8*,” 23<sup>rd</sup> Australasian Conference on the Mechanics of Structures and Materials, Byron Bay, Australia, December 12<sup>th</sup>, 2014. **International Event.**
- T26. Session Chair – “*Concrete & Materials Session*,” SF&R 2014 Structural Faults and Repair Conference, London, England, UK, July 10<sup>th</sup>, 2014. **International Event.**
- T27. Session Moderator – “*Anchorage and Performance Assessment*,” AFPIS 13 Conference, Melbourne, Victoria, Australia, December 12<sup>th</sup>, 2013. **International Event.**
- T28. Session Moderator – “*Concrete Behaviour I*,” SF&R 2012 Conference, Edinburgh, Scotland, United Kingdom, July 4<sup>th</sup>, 2012. **International Event.**
- T29. Session Moderator – “*Achieving Sustainability with Prestressed Concrete*,” ACI 2011 Fall Conference, Cincinnati, Ohio, USA, October 18<sup>st</sup>, 2011. **International Event.**
- T30. Session Chair – “*Durability of Fiber Reinforced Polymer Materials*,” CDCC 2011, Quebec City, Quebec, Canada, July 21<sup>st</sup>-23<sup>rd</sup>, 2011. **International Event.**
- T31. Session Chair – “*Durability of Fiber Reinforced Polymer Materials*,” GeoHunan 2011, Zhangjiajie, Hunan Province, China June 6<sup>th</sup> – 8<sup>th</sup>, 2011. **International Event.**
- T32. Session Chair – “*Performance of FRP Systems Subject to Extreme Events*,” FRPRCS/ACI – Fiber Reinforced Polymers for Reinforced Concrete Structures, Tampa, Florida, April 4<sup>th</sup>, 2011. **International Event.**
- T33. Session Chair – “*FRP Strengthening of Bridges and Timber Structures*,” SF&R 2010 Structural Faults and Repair Conference, Edinburgh, Scotland, UK, June 16<sup>th</sup>, 2010. **International Event.**
- T34. Session Moderator: – “*Developing a Research Agenda for Transportation Infrastructure Preservation and Renewal*” November 12<sup>th</sup> – 13<sup>th</sup>, 2009 located in the Keck Center of the National Academies, Washington, D.C.
- T35. Session Chair – “*Durability of FRP Systems such as in Exposure to Heat Light and Chemicals*,” FRPRCS – Fiber Reinforced Polymers for Reinforced Concrete Structures, Sydney, Australia, July 13<sup>th</sup>, 2009. **International Event.**
- T36. Session Chair – “*Slag Cement Concrete Developments*,” American Concrete Institute 2008 Fall Conference, St. Louis, Missouri, November 4<sup>th</sup>, 2008.
- T37. Session Chair – “*Fire Resistance*,” The 8<sup>th</sup> International Symposium on Utilization of High-Strength/High-Performance Concrete – Keynote Lecture, Tokyo, Japan, October 29<sup>th</sup>, 2008. **International Event.**
- T38. Session Chair – “*FRP in Concrete Repair*,” 2008 Structural Faults & Repair Conference, Edinburgh, Scotland, United Kingdom, June 10<sup>th</sup>-12<sup>th</sup>, 2008. **International Event.**
- T39. Session Moderator – “*10<sup>th</sup> North American Masonry Conference*,” 10NAMC, St. Louis, Missouri, June 3<sup>rd</sup>-6<sup>th</sup>, 2007.
- T40. General Session Moderator – Session “*Welcome*,” 10NAMC 2007, St. Louis, Missouri, June 3<sup>rd</sup>, 2007.
- T41. Session Moderator – Session “*Fiber Reinforced Polymers*,” 10NAMC 2007, St. Louis, Missouri, June 3<sup>rd</sup>, 2007.
- T42. Session Moderator – Session “*General Session*,” 10NAMC 2007, St. Louis, Missouri, June 4<sup>th</sup>, 2007.
- T43. General Session Moderator – Session “*Awards Presentations*,” 10NAMC 2007, St. Louis, Missouri, June 4<sup>th</sup>, 2007.
- T44. Banquet Moderator – Session “*Awards Presentations*,” 10NAMC 2007, St. Louis, Missouri, June 4<sup>th</sup>, 2007.
- T45. General Session Moderator – Session “*Closing General Session*,” 10NAMC 2007, St. Louis, Missouri, June 5<sup>th</sup>, 2007.
- T46. Session Moderator – Session “*Bridge Rehabilitation and Durability of Fiber Reinforced Plastics*,” Transportation Research Board, TRB 2007 Annual Meeting, Washington, DC, January 23<sup>rd</sup>, 2007.
- T47. Session Chairman – Session “*Non-Destructive Evaluation of Missouri Bridges*,” 2006 NDE Conference on Civil Engineering-The American Society for Nondestructive Testing, St. Louis, Missouri, August 16<sup>th</sup>, 2006.
- T48. Session Moderator – Session “*Durability and Reliability of Advanced Materials*,” American Society of Civil Engineering (ASCE) Structures Congress 2006, St. Louis, MO, May 20<sup>th</sup>, 2006.
- T49. Session Moderator – Session “*International Concrete Repair Institute*,” Mid-west Regional Conference, Rolla, MO, April 13<sup>th</sup>, 2006.

- T50. Session Moderator – Session “*Durability of FRP for Reinforced Concrete Structures*,” American Concrete Institute, Fall Conference 2005, Kansas City, MO, November 9<sup>th</sup>, 2005.
- T51. Session Moderator – Session “*Case Studies of Load Distribution for Existing Bridge Evaluation*,” American Concrete Institute, Spring Conference 2005, New York, NY, April 18<sup>th</sup>, 2005.
- T52. Session Moderator – Session “*A Mini Workshop: Role of NDE in Upgrade and Maintenance of Transportation Infrastructure*,” 16<sup>th</sup> World Conference on Non Destructive Evaluation, Fall Conference 2004, Montreal, Canada, September 1<sup>st</sup>, 2004. **International Event.**
- T53. Session Moderator – Session “*System ID and Health Monitoring of Structures*,” SPIE 2004 Annual Conference, San Diego, CA. March 18<sup>th</sup>, 2004.
- T54. Session Moderator – Session “*Durability of FRP Systems used in Concrete Construction – Part I*,” American Concrete Institute, Spring Conference 2004, Washington, D.C., March 14<sup>th</sup>, 2004.
- T55. Session Moderator – Session “*Durability of FRP Systems used in Concrete Construction – Part II*,” American Concrete Institute, Spring Conference 2004, Washington, D.C., March 14<sup>th</sup>, 2004.
- T56. Session Moderator – Session “*New Technologies for Bridge Monitoring*,” American Concrete Institute, Spring Conference 2003, Vancouver, British Columbia, Canada, March 31, 2003. **International Event.**
- T57. Session Moderator – Session “*High Performance Concrete - State-of-the-Art Report*,” American Concrete Institute, Fall Conference 2001, Dallas, Texas.
- T58. Session Moderator – Session “*High Performance Concrete - Applications*,” American Concrete Institute, Fall Conference 2001, Dallas, Texas.

**EDUCATIONAL CONFERENCE RELATED (SEE ABOVE FOR MAJOR CONFERENCE PLANNING/ORGANIZED)**

- E1. Session Moderator – Session ACI 318-11 Building Code Modification – St. Louis, Missouri, 50 attendees, Oct. 27, 2011.
- E2. Session Moderator – Session “*Student Luncheon*,” American Concrete Institute, Spring Conference 2008, Los Angeles, CA, March 31<sup>st</sup>, 2008.
- E3. Session Moderator – Session “*Egg Protection Device*,” American Concrete Institute, Spring Conference 2008, Los Angeles, CA, March 30<sup>th</sup>, 2008.
- E4. Session Moderator – Session “*Student Concrete Bowling Ball Competition*,” American Concrete Institute, Spring Conference 2008, Los Angeles, CA, March 30<sup>th</sup>, 2008.
- E5. Session Moderator – Session “*Student Luncheon*,” American Concrete Institute, Fall Conference 2007, Fajardo, Puerto Rico, October 15<sup>th</sup>, 2007.
- E6. Session Moderator – Session “*Student Concrete Cube Competition*,” American Concrete Institute, Fall Conference 2007, Fajardo, Puerto Rico, October 14<sup>th</sup>, 2007.
- E7. Session Moderator – Session “*Student Luncheon*,” American Concrete Institute, Spring Conference 2007, Atlanta, GA, April 23<sup>rd</sup>, 2007.
- E8. Session Moderator – Session “*Student FRP Composites Competition*,” American Concrete Institute, Spring Conference 2007, Atlanta, GA, April 22<sup>nd</sup>, 2007.
- E9. Session Moderator – Session “*Student Luncheon*,” American Concrete Institute, Fall Conference 2006, Denver, CO, November 6<sup>th</sup>, 2006.
- E10. Session Moderator – Session “*Student Concrete Cylinder Competition*,” American Concrete Institute, Spring Conference 2006, Denver, CO, November 5<sup>th</sup>, 2006.
- E11. Session Moderator – Session “*Student Concrete Bowling Ball Competition*,” American Concrete Institute, Spring Conference 2006, Denver, CO, November 5<sup>th</sup>, 2006.
- E12. Session Moderator – Session “*Student Luncheon*,” American Concrete Institute, Spring Conference 2006, Charlotte, NC, March 26<sup>th</sup>, 2006.
- E13. Session Moderator – Session “*Student Egg Protection Device Competition*,” American Concrete Institute, Spring Conference 2006, Charlotte, NC, March 25<sup>th</sup>, 2006.
- E14. Session Moderator – Session “*Student Luncheon*,” American Concrete Institute, Fall Conference 2005, Kansas City, MO, November 7<sup>th</sup>, 2005.
- E15. Session Moderator – Session “*Student Concrete Cube Competition*,” American Concrete Institute, Fall Conference 2005, Kansas City, MO, November 6<sup>th</sup>, 2005.
- E16. Session Moderator – Session “*Student Luncheon*,” American Concrete Institute, Spring Conference 2005, New York, NY, April 18<sup>th</sup>, 2005.
- E17. Session Moderator – Session “*Student FRP Beam Competition*,” American Concrete Institute, Spring Conference 2005, New York, NY, April 17<sup>th</sup>, 2005.
- E18. Session Moderator – Session “*Faculty Network*,” American Concrete Institute, Fall Conference 2004, San Francisco, CA, October 26<sup>th</sup>, 2004.

- E19. Session Moderator – Session “*Student Luncheon*,” American Concrete Institute, Fall Conference 2004, San Francisco, CA, October 25<sup>th</sup>, 2004.
- E20. Session Moderator – Session “*Student Concrete Cube Competition*,” American Concrete Institute, Fall Conference 2004, San Francisco, CA, October 24<sup>th</sup>, 2004.
- E21. Session Moderator – Session “*Student Luncheon*,” American Concrete Institute, American Concrete Institute, Spring Conference 2004, Washington, D.C., March 15<sup>th</sup>, 2004.
- E22. Session Moderator – Session “*Student EPD and Bowling Ball Competitions*,” American Concrete Institute, Spring Conference 2004, Washington, D.C., March 14<sup>th</sup>, 2004.
- E23. Session Co-Moderator – Session “*ACI 318-02 Building Code Modifications*,” American Concrete Institute, ACI Seminar Series - St. Louis, MO, April 23, 2003.
- E24. Session Moderator – Session “*ACI Faculty Network*,” American Concrete Institute, Fall Conference 2002, Phoenix, Arizona.
- E25. Session Moderator – Session “*Walter P. Moore Award / Value Added Education Session*,” American Concrete Institute, Fall Conference 2002, Phoenix, Arizona.

**Key:** T# - technical session; E# - educational session

## **PROFESSIONAL TECHNICAL OVERSIGHT ACTIVITIES:**

### **THE NATIONAL ACADEMIES – Transportation Research Board**

**Long-Term Bridge Monitoring Program – Expert Task Group on Bridge Durability and Preservation, 2012-2017, Initial 3 Year Appt.**

### **IALCCE – International Association for Life-Cycle Civil Engineering**

United States Representative Society Member, 2016-Present

## **PROFESSIONAL TECHNICAL COMMITTEES:**

### **AMERICAN CONCRETE INSTITUTE**

ACI Education Activities Committee (ACI Appointment) – **Voting Member**, 2009-2015

ACI Paper Awards Committee, “Watson Medal for Materials Research” Sub-Committee (ACI Appointment),

Appointed **Committee Chair** by the ACI Board of Directors in 2011-2012, Committee Member 2009-2012

ACI Student and Young Professional Activities Committee – **Voting Member**, 2007-2012

ACI Technical Committee 239 “Ultra High-Performance Concrete” – **Voting Member**, 2011-Present (Founding Member)

ACI Technical Committee 363 “High Strength Concrete” – **Voting Member**, 1998-2002 & 2013-Present; **Committee Secretary** and **Voting Member** 2002-2007; **Committee Chair** and **Voting Member** 2007-2013

ACI Technical Committee 363-1 “High Strength Concrete Report on HSC” – **Voting Member**, 1999-2008

ACI Technical Committee 363-2 “High Strength Concrete Definition” – **Voting Member**, 2000-2002

ACI Technical Committee 363-3 “Lightweight High Strength Concrete Report” – **Voting Member**, 2008-Present

ACI Technical Committee 342 “Evaluation of Concrete Bridges and Bridge Elements” – **Voting Member**, 2001-Present

ACI Technical Committee 440 “Fiber Reinforced Polymer Reinforcement” – **Voting Member**, 2005–Present; **Associate Member**, 2000–2004

ACI Technical Committee 440F “FRP Repair” – **Voting Member**, 2000–2004

ACI Technical Committee 440K “FRP Material Characteristics” – **Voting Member**, 2000–2004

ACI Technical Committee 440H “FRP Reinforced Concrete” – **Voting Member**, 2000–Present

ACI Technical Committee 440L “Durability of Fiber Reinforced Polymer for Concrete Structures” – **Committee Chair**, 2005 – Present; **Voting Member**, 2000–2004

ACI Technical Committee 440M “FRP Repair of Masonry” – **Voting Member**, 2002–Present

ACI Technical Committee 440 “Blast Resistant Design Task Group” – **Chairman** and **Voting Member**, 2002–2003

ACI Technical Committee 549 “Thin Reinforced Cementitious Products and Ferrocement” – **Associate Member**, 2017–Present

ACI Technical Committee S801 “Student Activities Committee” – **Committee Chair** 2004-2008; **Voting Member**, 2003–Present.

ACI Technical Committee S802 “Teaching Methods and Materials Committee” – **Voting Member**, 2002–Present

ACI Technical Committee S803 “Faculty Network Coordinating Committee” – **Voting Member**, 2000–Present, **Committee Secretary** 2000-2015

ACI Technical Committee S804 “Student and Young Professionals Awards Committee” – **Voting Member**, 2001–2016

### **AMERICAN SOCIETY OF CIVIL ENGINEERS / ARCHITECTURAL ENGINEERING INSTITUTE**

AEI National Academic Council Representative – **Voting Member** 2002-2010

## **MISSOURI DEPARTMENT OF TRANSPORTATION – MOTREC – Technical Advisory Groups (TAGs)**

MoDOT MOTREC Project Development / Bridges Technical Advisory Group, **Voting Member** and UMR Representative 2000–2005

## **MISSOURI TRANSPORTATION INSTITUTE RESTRUCTURING COMMITTEE**

MTI Committee Member – 2007-2008

## **THE MASONRY SOCIETY**

TMS Board of Directors (TMS Executive Committee Appointed) – **Voting Member**, 2008–2013

TMS Technical Activities Committee (TMS Board Appointed) – **Voting Member**, 2012-2018

TMS Bylaws Committee (TMS Board Appointed) – **Voting Member**, 2014-Present

TMS Membership Committee – **Voting Member**, 2010-Present

TMS Electronic Communications Task Group – **Voting Member**, 2008-2014

TMS Research Committee – **Voting Member**, 2015-Present, **Committee Chair**, 2017-Present

TMS Steering Committee – **Voting Member**, 2004-2012

## **PRECAST-PRESTRESSED CONCRETE INSTITUTE (PCI)**

PCI Paper Awards Committee (PCI Appointed) – **Voting Member**, 2015-Present; **Vice Chair** 2017-Present

PCI Student Education Committee (PCI Chair Appointed) – **Voting Member**, 2018-Present

## **TRANSPORTATION RESEARCH BOARD – THE NATIONAL ACADEMIES**

A2C07 Committee on Structural Fiber-Reinforced Plastics – **Committee Member** 2003-2013; **Friend of the Committee** 2001-2003, 2013-Present

A2C03 Committee on Concrete Bridges – **Committee Member** 2005-Present; **Friend of the Committee** 2001-Present

A2E01 Committee on Durability of Concrete – **Friend of the Committee** 2000-2008

## **PEER REVIEW ACTIVITIES:**

### **JOURNALS**

American Concrete Institute – *Materials Journal*, *Structures Journal*

American Society of Civil Engineers – *Journal for Composites in Construction*, *Materials Journal*, *Structures Journal*, *Journal of Professional Issues*

Canadian Journal of Civil Engineers – *Journal of Professional Issues*

Elsevier's Construction and Building Materials Journal

Journal of Geophysics and Geological Engineering

Journal of Composite Materials

Transportation Research Board – *Fiber Reinforced Composites*, *Concrete Structures*

The Masonry Society Journal

### **FUNDING AGENCIES**

National Science Foundation Individual Proposal Reviews

National Science Foundation Panel Reviewer

University of Missouri Research Board

## **TEACHING AND UNIVERSITY SERVICE ACTIVITIES:**

Available Upon Request