



Sami H. Rizkalla

Ph. D., FACI, FASCE, FEIC, FCSCE, FIIFC, FPCI

**CURRENT
POSITIONS:**

Distinguished Professor Emeritus, Civil Engineering & Construction,
North Carolina State University (NCSU)

ACADEMIC

Ph. D., North Carolina State University, 1976

QUALIFICATIONS:

M.S., North Carolina State University, 1974

B.Sc., Alexandria University, Egypt, 1965

FELLOWSHIPS:

1. Fellow of American Concrete Institute (ACI)
2. Fellow of American Society of Civil Engineers (ASCE),
3. Fellow of Precast/Prestressed Concrete Institute (PCI)
4. Fellow of International Institute for FRP in Construction (IIFC)
5. Fellow of Canadian Society for Civil Engineering (CSCE)
6. Fellow of the Engineering Institute of Canada (EIC)
7. Fellow of Engineers Canada

HONORS & AWARDS:

1. **Martin P. Korn Award**, Precast/Prestressed Concrete Institute 2018
2. **T.Y. Lin Award**, American Society of Civil Engineers 2018
3. **Martin P. Korn Award**, Precast/Prestressed Concrete Institute 2017
4. **Charles. S. Whitney Medal Award**, American Concrete Institute (ACI), 2016
5. **Award for Best Paper** The FRPRCS-12 /APFIS, 2015
6. **Chester Paul Siess Award** for Excellence in Structural Research, American Concrete Institute
ACI, 2014
7. **T.Y. Lin Award**, American Society of Civil Engineers, 2013
8. **Charles C. Zollman Award**, Precast/Prestressed Concrete Institute, 2012
9. **Best paper and best Poster presented** at the APFIS 2012 Conference, 2012
10. **Arthur Boase Award**, Concrete Research Council, ACI Foundation, 2010
11. **Fellow**, Precast/Prestressed Concrete Institute, 2009

12. **Distinguished Educator Award**, Precast/Prestressed Concrete Institute, 2008
13. **Mirko Ros Gold Medal Award**, EMPA Switzerland, 2008
14. **Joe W. Kelly Award**, American Concrete Institute, 2008
15. **Martin P. Korn Award**, PCI Journal Award, 2007
16. **IIFC Lifetime Achievement Award**, 2006
17. **Best Paper on the Use of Materials: Structural Faults and Repair**, 2006
18. **Metropolitan Who's Who in Engineering** (Representing Raleigh), 2006
19. **Delmar L. Bloem Award**, American Concrete Institute, 2004
20. **Fellow**, International Institute for FRP in Construction (IIFC), 2004
21. **A.B. Sanderson Award**, Canadian Society for Civil Engineering, 2000
22. **Sustainable Development Award of Excellence** for the Taylor Smart Highway Bridge, 1999
23. **National Transportation Award** of Achievement, 1999
24. **Superior Academic Performance**, Faculty of Engineering, University of Manitoba, 1999
25. **PCI Harry H. Edwards Industry Advancement Award** for the Taylor Smart Highway Bridge, 1998
26. **Canadian Council of Professional Engineers Meritorious Service Award**, 1996
27. **James A. Vance Award**, Canadian Society for Civil Engineering, 1996
28. **Superior Academic Performance**, Faculty of Engineering, University of Manitoba, 1996
29. **Superior Academic Performance**, Faculty of Engineering, University of Manitoba, 1995
30. **Fellow**, The Engineering Institute of Canada, 1995
31. **Merit Award**, Association of Professional Engineers of Manitoba, 1994
32. **Fellow**, American Concrete Institute, 1993
33. **Outreach Award**, The University of Manitoba, 1992
34. **Fellow**, Canadian Society for Civil Engineering, 1992
35. **Honorary Professor**, Jilin Architectural & Civil Engineering Institute, China, 1991
36. **Concrete Award**, Ready-mixed Concrete Institution of Singapore, 1989
37. **Fellow**, American Society of Civil Engineers, 1988
38. **Who's Who in Technology Today**, 1986
39. **Premier's Award of Merit**, Manitoba Design Institute, 1982
40. **Sigma XI** - Scientific Research Society of North America, 1980
41. **ASTM Faculty Intern Award**, 1980
42. **The Honor Society of Phi Kappa Phi**, 1975
43. **Tau Beta Pi** - The Engineering Honor Society, 1973
44. **Chi Epsilon** - The National Civil Engineering Honor Society, 1972
45. **Maritime Prize**, Alexandria University, Egypt, 1965
46. **Undergraduate Distinction Award**, Alexandria University, 1960 -1965

PROFESSIONAL EXPERIENCES:

- 2009 – 2017 **Director**, NSF I/ UCRC – Center for Integration of Composition into Infrastructure (CICI), North Carolina State University
- 2007 – 2017 **Adjunct Professor**, Ain Shams University, Egypt
- 2000 – Present **Distinguished Professor Emeritus** of Civil Engineering and Construction, North Carolina State University
- 2000 – 2017 **Director**, Constructed Facilities Laboratory, North Carolina State University
- 2002 – 2010 **Director**, NSF I/UCRC – Repair of Buildings and Bridges with Composites (RB2C), North Carolina State University
- 2000 – 2006 **Adjunct Professor**, University of Manitoba, Canada
- 1995 – 2000 **President and Scientific Director**, ISIS Canada, University of Manitoba, Canada
- 1988 – 2000 Professor, Civil Engineering, University of Manitoba, Canada
- 1995 – 1998 **Adjunct Professor**, Concordia University, Canada
- 1990 – 1995 **Director**, Structural Engineering and Construction R & D Facility, University of Manitoba, Canada

PROFESSIONAL SOCIETY MEMBERSHIPS:

- 2003 - Present Member, Post – **Tension Institute**
- 2000 – Present Member, **International Concrete Repair Institute**
- 1978 – Present Retired Member, **Association of Professional Engineers and Geoscientists of the Province of Manitoba (APEGM)**
- 1997 – 2002 Member, **International Society for Composites in Construction (ISCC)**
- 1988 – 1994 Professional Associate, **Transport Institute, University of Manitoba**
- 1988 – 1991 Member, **Japanese Society of Civil Engineers (JSCE)**
- 1987 – 1990 Member, **International Association for Bridge & Structural Engineering (IABSE)**
- 1979 – 1989 Member, **Manitoba Chapter for Canadian Society for Civil Engineering**
- 1983 – 1986 Member, **Concrete Institute of Australia**
- 1979 – 1982 Member, **American Society for Testing and Material (ASTM)**

EDITORIAL BOARDS:

1. Member, **Editorial Board, “International Journal of Sustainable Materials and Structural System (IJ-SMSS) 2010-2012**
2. Member, **Blue Ribbon Review Committee of the Precast/Prestressed Handbook, Precast/Prestressed Concrete Institute 2009 – 2011**
3. Member, Editorial Advisory Board, **Elsevier Science, Construction and Building Materials 2007 – 2011**
4. Member, International Editorial Board, **International Journal of Concrete Structures and Materials, Korea, 2007 – 2015**
5. Member, International Advisory Board, **The Emirates Journal for Engineering Research, 2007 – 2012**
6. Member, Advisory Board, **International Institute for FRP in Construction (IIFC) Newsletter, 2004 – 2017**
7. Member, Advisory Board, **Journal of Advanced Concrete Technology, Japan, 2002 – 2011**
8. Member, Editorial Board, **ASCE Journal of Composites for Construction 1996 – 2011**
9. **Regional Editor, Elsevier Science, Construction and Building Materials, 2001 – 2007**
10. **Chief Editor, FRP International Newsletter, 1993 – 2004**
11. **Associate Editor, Canadian Journal of Civil Engineering, 1994 - 1998**

REVIEWER OF TECHNICAL PAPERS AND PROPOSALS:

1. Technical Papers for Journals
2. Japanese Advanced Concrete Technology Journal
3. Korean Concrete Institute Journal
4. ASCE Journal of Composites for Construction
5. Precast/Prestressed Concrete Institute Journal
6. Canadian Journal of Civil Engineering
7. Applied Mechanics Reviews
8. ACI Structural Journal
9. Journal of Structural Engineering
10. Experimental Mechanics
11. Concrete International
12. Elsevier Science
13. Construction and Building Materials
14. Journal of Intelligent Material Systems and Structures
15. Canadian Journal of Civil Engineering
16. Advanced Composites Letters
17. ACI Special Publications
18. Arabian Journal for Science and Engineering, RILEM Publication - Material and Structures Journal
19. Indian Concrete Institute

CONSULTING ACTIVITIES:

- 2006 – Present **Altus Precast Concrete Group** - Conceptual Design of Innovative Precast Concrete Products Reinforced with FRP
- 2012 – 2014 **Milliken & Company** - Design of FRP Strengthening Systems
- 2009 **International Composite Solutions, LLC** - Repair of Concrete Structures with FRP
- 2004 **Carlton Fields Law Firm, Attorneys** - Evaluation of Sanibel Causeway Bridge over San Carlos Bay
- 2003 **NC Dept. of Transportation** - Design of Highway Concrete Bridge Deck Reinforced with FRP
- 2003 **NC Dept. of Transportation** - Field Evaluation of Steel Bridge Under Construction
- 2002 **Northeast Concrete Products, LLC** - Design Guideline Manual for Precast FRP Composite Piling
- 2002 **Parker, Poe, Adams & Bernstein Attorneys and Counselors at Law** - Expert Witness for
Speedway Bridge Failure
- 1999 **Manitoba Highways and Transportation**- Bridge Rating
- 1998 **Dillon Engineering** - Saskatchewan Legislative Building Precast Pile System
- 1997 **Marshall Industries** -Evaluation of C-Bar GFRP as a Reinforcement for Concrete Structures
- 1996 - 1997 **City of Winnipeg** - FRP for Strengthening the Maryland Bridge
- 1996 - 1997 **CAN/ACM Intelligent Structures**- FRP for Prestressing and Reinforcing the Headingly Bridge
- 1995 **CAN/ACM Intelligent Structure** - Steel-free Deck for the Salmon River Bridge
- 1994 **Wardrop Engineering, Inc.** - Charleswood Bridge
- 1993 **Dillon Engineering** - Manitoba Legislative Building Project
- 1993 The City of Calgary - Beddington/Centre Street Bridge Prestressed by FRP
- 1992 Wardrop Engineering, Inc.- Expert Witness for Failure of Air-supported Structure
- 1991 – 1992 **Dillon Consulting** - Repair of the 90-year Old Shoal Lake Aqueduct
- 1990 **Wardrop Engineering, Inc.** - Design of Prestressed Concrete Provencher Bridge
- 1990 **ID Engineering** - Review of the Design of a Prestressed Concrete Railway Bridge
- 1989 **Wardrop Engineering, Inc.** - Design of Containment for Energy System

1988	Dominion Bridge Co., Ltd. - Structural Design of Steel Structures
1987	Con-Force Structures, Ltd. - Design of Precast Concrete Chemical Tanks
1987	Barkman Concrete, Ltd. - Problems Related to Concrete Subjected to Acid Attack
1986 – 1987	Environment, Workplace Safety & Health - Engineering Investigations
1985	Penner & Keeler Partners, Ltd. 26 Storey Precast Concrete Building
1984	Reid Crowther & Partners, Ltd. - Field Testing of Disraeli Bridge
1984	Canadian National Rail - Railway Track Problems
1980 – 1983	Penner & Keeler Partners, Ltd. - Design of Industrial and Tall Buildings
1981	Dominion Bridge Co., Ltd. - New Design Concept for Steel Joist
1977 – 1978	Betoni-Bowler Structures, Ltd. - Prestressed Concrete Structures
1976	The Crop-Designers and Builders - Underground Prestressed Concrete Tanks
1974 – 1975	Fikri Saleh & Associates - Industrial and Commercial Buildings
1965- 1971	Gouda Consulting Engineering Office - Industrial and Tall Buildings

SCHOLARLY ACCOMPLISHMENTS:

1. **Established and Directed** the NSF I/UCRC Center “Center for the Integration of Composite into Infrastructure, **CICI**”, 2009-2017.
2. **Established and Directed** the NSF I/UCRC Center “Repair of Buildings and Bridges with Composite, **RB2C**”, 2002-2010.
3. **Established and maintain accreditation of the Constructed Facilities Laboratory (CFL)** to ISO 17025 by the International Accreditation Service (IAS). The CFL is one of five university laboratories in the United States accredited to this standard, which helps the industry to receive approval for new construction materials and/or structural systems requiring accreditation by the International Code Council.
4. **Establishment of the “Professor Rizkalla Best Graduate Presentation Award”** for the bi-annual Australian International Conference on Composites (ACUN) sponsored by the organizing committee, 2005-2017
5. **Establishment and organization of the “Paul Zia Distinguished Lecture Series”**, 2002-2017
6. **Received five-year grant from NSF** - Integrative Graduate Education and Research Traineeship (IGERT) program in collaboration with Virginia Tech in the field of “Macromolecular Science and Infrastructure Engineering.” July 2002 – June 2007.

U.S. Patent

1. “Concrete Girder Reinforcement,” Pending US Patent, Submitted July 2015.
2. “Precast Concrete Pile with Carbon Fiber Reinforced Grid,” U.S. Patent Number 8,677,720 and Trademark Office, Department of Commerce 2014.

Books

1. Fiber Reinforced Plastic for Concrete Structures: Properties and Applications, published by Elsevier Science Publishers B.V., Chapter 3, co-authored by M. A. Erki, 1993.
2. Advanced Composite Materials in Bridges and Structures in Japan, published by the Canadian Society for Civil Engineering, Chapter 3, co-authored by M. A. Erki, August 1992.
3. Use of Advanced Composite Material for Bridge Application, published by the Canadian Society for Civil Engineering, Chapter 8, co-authored by M. A. Erki, 1991.
4. Basic Reinforced Concrete Design, co-authored by B. M. Thadani, Cantext Publications, Winnipeg, Manitoba, 1985.
5. Structural Steel Design, co-authored by B. N. Thadani, Cantext Publications, Winnipeg, Manitoba, 1983.

Referred Papers in Scientific Journals:

1. Hariharan, V., Lucier, G., Rizkalla, S., Zia, P., and Klein, G., “Behavior of Compact L-Shaped Spandrel Beams with Alternative Web Reinforcement,” PCI Journal, March-April 2019, Volume 64, No. 2, pp,39-54
2. Nafadi, M., Khalaf Alla, O., Lucier, G., Rizkalla, S., Zia. P., Klein, G., “ Ledge Behavior and Strength of Short-Span L-Shaped Beams”, PCI Journal, March-April 2018, Volume 63, pp.67-86,
3. Nafadi, M., Lucier, G., Rizkalla, S., Zia. P., Klein, G., “ Ledge Behavior and Strength of Long-Span L-Shaped Beams”, PCI Journal, March-April 2018, Volume 63, pp.50-66,
4. Nafadi, M., Lucier, G., Rizkalla, S., Zia. P., Klein, G., “Development of Design Guidelines for Ledges of L-shaped Beams” PCI Journal, March-April 2018, Volume 63, pp. 32-43,
5. Rubio. E., Rubio. E.J., Lucier. G., Moskow. B., Rizkalla. S., “Ceramic Precast Composite Panels: High performance structural and architectural building enclosures”, Facade Techtonics Journal, March 2018

6. Soliman, J., Hassan, T., and Rizkalla, S., "Shear Strengthening of Reinforced Concrete Beams Using Externally Bonded Small-Diameter Carbon Strands", submitted to ACI Special publication SP-70s, American Concrete Institute, October 2017
7. Ghaz, M., Miller, B., Khalaf Alla, O. and Rizkalla, S., "Do Mechanical and Environmental loading have a synergistic effect on the degradation of Pultruded Glass Fiber reinforced Polymers?" , Journal of Construction and Building Materials Composite Part-B, September 2017, Volume 106, pp.344-355
8. Botros, A., Klein, G., Lucier, G., Rizkalla, S. and Zia, P., "Dapped Ends of Prestressed Concrete Thin-Stemmed Members Part 1: Experimental Testing and Behavior", PCI Journal, March-April 2017, pp 61-81.
9. Botros, A., Lucier, G., Rizkalla, S., and Gleigh, H., "Behavior of Free and Connected Double-Tee Flanges Reinforced with FRP", PCI Journal, Sept-Oct 2016, Volume 61, pp.49-68,
10. Cholake, S. T., Moran, G., Joe, B., Bai, Yu, Raman, R.K., Zhao, X., Rizkalla, S. and Bandyopadhyay, S., "Improved Mode I fracture resistance of CFRP composites by reinforcing epoxy matrix with recycled short milled carbon fibre," Journal of Construction and Building Materials Journal, April 2016, Volume 11, pp. 399-407.
11. Shapack, G., Van Brunt, Z., Seracino, R., Lucier, G., Rizkalla, S., and Pour-Ghaz, M., "Improving the Durability and Coastal Bridges with CFRP Prestressed Cored Slabs," ACI Special publications, April 2016.
12. Lucier, G., Botros, A., Rizkalla, S. and Gleich, H., "Behavior of Free and Connected Double-Tee Flanges Reinforced with FRP," PCI Journal, March 2016, Volume 61, Issue 5, pp. 49-68.
13. Kazem, H., Guaderrama, L., Seliem, H., Rizkalla, S. and Kobayashi, A., "Strengthening of Steel Plates subjected to Uniaxial Compression using Small-Diameter CFRP Strands," Journal of Construction and Building Materials, February 2016, Volume 111, pp. 223-236.
14. Seliem, H., Ding, L., Potter, W. and Rizkalla, S., "Use of CFRP Grid for Precast Concrete Piles," PCI Journal, January 2016, Volume 61, Issue 5, pp. 37-48.
15. High, C., Seliem, H.M., El-Safty, A., and Rizkalla, S., "Use of Basalt Fibers for Concrete Structures," Journal of Construction and Building Materials Journal, October 2015, Volume 96, pp. 37-46.
16. Cholake, S.T., Moran, G., Bai, Y., Raman, R.K., Singh, Zhao, X.L., Rizkalla, S. and Bandyopadhyay, S., "Physico-Chemical Characterization of Novel Epoxy Matrix System Reinforced with Recycled Short Milled Carbon Fibre," Journal of Minerals and Materials Characterization and Engineering, September 2015, Volume 3, pp. 373-389
17. Kazem, H., Bunn, W.G., Seliem, H., Rizkalla, S., and Gleich, H., "Durability and Long Term behaviour of FRP/Foam Shear Transfer Mechanism for Concrete Sandwich Panels," Journal of

- Construction and Building Material Journal, August 2015, Volume 98, pp. 722-734.
18. Lunn, D., Lucier, G., Rizkalla, S., and Cleland, N., "A New Generation of Precast Concrete Double-Tees Reinforced with CFRP Grid," PCI Journal, July-August 2015, Volume 60, pp. 37-48.
 19. Tabrizi, S. Kazem, H. Rizkalla, S. and Kobayashi, A., "New Small-Diameter CFRP Material for Flexural Strengthening of Steel Bridge Girders," Journal of Construction and Building Material, June 2015, Volume 95, pp. 748-756.
 20. Hodicky, K., Sopal, G., Rizkalla, S., Hulin, T., and Stang, H., "Experimental and Numerical Investigation of FRP Shear Mechanism for Concrete Sandwich Panels", accepted for publication in ASCE Journal of Composites for Construction, October 2014, Volume 19, Issue 5.
 21. Liu, H., Zhao, X., Bai, Y., Singh Roman, R., Rizkalla, S., Bandyopadhyay, S., "The Effect of Elevated Temperature on the Bond between High Modulus CFRP Sheet and Steel", Australian Journal of Structural Engineering, July 2014, Volume 15, No. 4, pp. 355-366.
 22. Lunn, D & Rizkalla, S. "Design of FRP-Strengthened Infill Masonry Walls Subjected to Out-of-Plane Loading", ASCE Journal of Composites for Construction (JCC), June 2014, Volume 18, Issue 3.
 23. Cholake, S., Mada, M., Raman, S., Bai, Y., Zhao, X, Bandyopadhyay, S. and Rizkalla, S., "Quantitative Analysis of Curing Mechanisms of Epoxy Resin by Mid- and Near-Fourier Transform Infra Red Spectroscopy", the Defence Science Journal, May 2014, Volume 64, No. 3, pp. 314-321.
 24. Klein, G. Lucier, G. Rizkalla, S., and Zia, P., "Torsion Simplified: A Failure Plan Model for Design of Spandrel Beams," accepted for publication by ACI Concrete International, October 2013.
 25. Lunn, D., Maeda, S., Rizkalla, S., and Ueda, T., "Anchorage Systems for FRP Strengthening of Infill Masonry Structures", International Journal of Sustainable Materials and Structural Systems, September 2013, Volume 1, No. 2, pp.142-160.
 26. Zhao, X.L., Bai, Y., Al-Mahaidi R. , Rizkalla S., "Effect of Dynamic Loading and Environmental Conditions on the Bond between CFRP and Steel: State-of-the-Art Review," ASCE Journal of Composites for Construction, October 2013, Volume 18.
 27. Zhao, X.L., Bai, Y., Al-Mahaidi, R. and Rizkalla, S., "Design of FRP-Strengthened Infill Masonry Walls Subjected to Out-of-Plane Loading," ASCE Journal of Composites for Construction, July 2013, Volume 18.
 28. Rizkalla, S., Lunn, D., Lucier, G., Sennour, L and Gleich, H., "Precast Concrete Wall Panels," Journal of the Concrete Plant International Journal, March 15, 2013.

29. Rizkalla, S., Lunn, D., Lucier, G., Sennour, L., Gleich, H. and Carson, J., "Innovative Use of FRP for Sustainable Precast Structures", *Precast Concrete Façade Tectonics Journal*, February 2013, No. 8, pp. 55-63.
30. Storm, T., Rizkalla, S., and Zia, P., "Effect of Production Practices on Camber of Prestressed Concrete Bridge Girders", *PCI Journal*, February 2013, Volume 58, No. 1, pp. 96-111.
31. Lucier, G. Rizkalla, S., and Sennour, L., "Structural Composites Thermally Efficient Precast Concrete", *Concrete Plant International, CPI*, 2 1 2013, pp. 1-10.
32. Mosavi, A., Seracino, R., Rizkalla, S. and Sumner, E., "Effect of Temperature on Daily Model Variability of a Steel Concrete Composite Bridge," *ASCE Journal of Bridge Engineering*, Nov./Dec 2012, Volume 17, No. 6, pp 979-983.
33. Hosny, A., Seliem, H.M., Rizkalla, S., and Zia, P., "Development Length of Unconfined Conventional and High-Strength Steel Reinforcing Bars", *ACI Structural Journal*, Sept-October 2012, Volume 109, No. 5, pp. 655-664.
34. Hassan, T.K., Mantawy, A., Soliman, J., Sherif, A. and Rizkalla, S., "Bond Characteristics and Shear Behavior of Concrete Beams Reinforced with High-Strength Steel Reinforcement," *the Advanced in Structural Engineering Journal*, Volume 15, No. 2, 2012.
35. Lucier, G., Walter, C., Rizkalla, S., Zia, P. and Klein, G., "Development of a Rational Design Methodology for Precast Slender Spandrel Beams: Part 2, Analysis and Design Guidelines," *PCI Journal*, Fall 2011, Vol. 56, No. 4, pp. 106-133.
36. Heiser, M., Hosny, A., Rizkalla, S. and Zia, P., "Bond and Shear Behavior of Concrete Beams Containing Lightweight Synthetic Particles," *ACI Structural Journal*, November – December 2011, Vol. 108 No. 6.
37. Lucier, G., Walter, C., Rizkalla, S., Zia, P. and Klein, G., "Development of a Rational Design Methodology for Precast Slender Spandrel Beams: Part 1, Experimental Results," *PCI Journal*, Volume 56, Number 2, Spring 2011, pp. 88-111.
38. Mosavi, A., Dickey, D., Seracino, R. and Rizkalla, S., "Identifying Damage Locations Under Ambient Vibrations Utilizing Vector Autoregressive Models and Mahalanobis Distances," *Mechanical Systems and Signal Processing Journal*, 2011, Volume 26, pp. 254-167.
39. Hassan, T., Lucier, G., Nelson, L. and Rizkalla, S., "Splice Strength of Large Diameter, High Strength Steel Reinforcing Bars," *Construction and Building Materials Journal*, July 2011, Vol. 26, Issue 1, pp. 216-225.
40. Ding, L., Seliem, H.M. and Rizkalla, S., "Behavior of Concrete Piles Confined with CFRP," *ACI Special Publication*, April 2011, No. 275, pp. 275-311.

41. Rizkalla, S., Lucier, G. and Dawood, M., "Innovative Use of FRP for the Precast Industry," in press *Advances in Structural Engineering Journal*, 2011.
42. Frankl, B., Lucier, G., Hassan, T. and Rizkalla, S., "Behavior of Insulated Precast, Prestressed Concrete Sandwich Wall Panels Reinforced with CFRP Grid," *PCI Journal*, Volume 56, Number 2, Spring 2011, pp. 88-111.
43. Soong, W.H., Raghavan, J. and Rizkalla, S., "Fundamental Mechanisms of Bonding of Glass Fiber Reinforced Polymer Reinforcement to Concrete," *Construction and Building Materials Journal*, June 2011. Vol. 25, Issue 6, pp. 2813 – 2821.
44. Lunn, D. and Rizkalla, S., "Strengthening of Infill Masonry Walls with FRP Materials," *ASCE Journal of Composites for Construction*, Vol. 15, Number 2, March/April 2011, pp. 206-214.
45. Obregon-Salinas, A.J., Rizkalla, S. and Zia, P., "Grancrete as Adhesive for FRP Flexural Strengthening System for Concrete Structures," *ACI Special Publication*, April 2011
46. El-Hacha, R., Mirmiran, A., Cook, A. and Rizkalla, S., "Effectiveness of Surface-Applied Corrosion Inhibitors for Concrete Bridges," *ASCE Journal of Materials in Civil Engineering*, March 2011.
47. Munikrishna, A., Hosny, A., Rizkalla, S. and Zia, P., "Behavior of Concrete Beams Reinforced with ASTM A1035 Grade 100 Stirrups under Shear," *ACI Journal*, Jan/Feb 2011. Vol. 108, Issue 1, pp. 34 – 41.
48. Dawood, M., and Rizkalla, S., "Environmental Durability of a CFRP System for Strengthening Steel Structures," *Construction and Building Materials Journal*, September 2010. Vol. 24, Issue 9, pp. 1682-1689.
49. Mertol, H.C., Rizkalla, S., Zia, P., and Mirmiran, A., "Creep and Shrinkage Behavior of High-Strength Concrete and Minimum Reinforcement Ratio for Bridge Columns," *PCI Journal*, Summer 2010. Vol. 55, Issue 3, pp. 138 – 154.
50. Zia, P., Rizkalla, S., Mirmiran, A., Russell, H. and Mast R., "Discussion on Elastic Modulus, Shrinkage and Creep of High-Strength Concrete as adopted by AASHTO," *PCI Journal*, Spring 2010. Vol. 55, Issue 2, pp 11-14.
51. Hassan, T. and Rizkalla, S., "Analysis and Design Guidelines of Precast/Prestressed Composite Load Bearing Sandwich Wall Panels," *PCI Journal*, Spring 2010. Vol. 55, Issue 2, pp. 147 – 162.
52. Dawood, M., Taylor E. and Rizkalla, S., "Two-Way Bending Behavior of 3-D GFRP Sandwich Panels with Through-Thickness Fiber Insertions," *Composite Structures Journal*, Elsevier, March 2010. Vol. 92, Issue 4, pp. 950-963.

53. Dawood, M., Taylor, E., Ballew, W. and Rizkalla, S., "Static and Fatigue Bending Behavior of Pultruded GFRP Sandwich Panels with Through-Thickness Fiber Insertions," *Composites Part B: Engineering Journal*, February 2010. Vol. 41, Issue 5, pp 363 – 374.
54. Schnerch, D. and Rizkalla, S., "Discussion and Closure of Flexural Strengthening of Steel Bridges with High Modulus CFRP Strips," *ASCE Journal of Bridge Engineering*, January/February 2010. Vol. 15, Issue 1, pp. 117-118.
55. Jiang, G., Dawood, M., Peters, K. and Rizkalla, S., "Self-Monitoring FRP Strengthening System for Civil Engineering Structures", *Structural Health Monitoring: An International Journal*, Online: December 4, 2009. Print: July 2010. Vol. 9, Issue 4, pp 309 – 322.
56. Rizkalla, S., Hassan, T. and Lucier, G., "FRP Shear Transfer Mechanism for Precast, Prestressed Concrete Sandwich Load Bearing Panels," *ACI Special Publication*, October 2009. Vol. 265, pp 603 – 626.
57. Lanier, B., Schnerch, D., and Rizkalla, S., "Behavior of Steel Monopoles Strengthened with High-Modulus CFRP Materials," *Journal of Thin-Walled Structures*, Elsevier, October 2009. Vol. 47, Issue 10, pp. 1037-1046.
58. Logan, A., Choi, W. Mirmiran, A., Rizkalla, S., and Zia, P., "Short-Term Mechanical Properties of High-Strength Concrete," *ACI Materials Journal*, September/October 2009. Vol. 106, Issue 5, pp. 413-418.
59. Seliem, H., Hosny, A., Rizkalla, S., Zia, P., Briggs, M., Miller, S., Darwin, D., Browning, J., Glass, G., Hoyt, K., Donnelly, K. and Jirsa, J., "Bond Characteristics of ASTM A1035 Steel Reinforcing Bars", *ACI Structural Journal*, July-August 2009. Vol. 106, Issue 4, pp. 530-539.
60. Rosenboom, O., Walter C., and Rizkalla, S., "Strengthening of Prestressed Concrete Girders with Composites: Installation, Design and Inspection," *Construction and Building Materials*, April 2009. Vol. 23, Issue 4, pp. 1495-1507.
61. Sumpter, M., Rizkalla, S. and Zia, P., "Behavior of High-Performance Steel as Shear Reinforcement for Concrete Beams", *ACI Structural Journal*, March/April 2009. Vol. 106, Issue 2, pp. 171-177.
62. Rizkalla, S., Zia, P., Mirmiran, A., Russell, H. and Mast, R., "Proposal for Concrete Compressive Strength up to 18 ksi (124 MPa) for Bridge Design," *Transportation Research Record of the National Academics, Structures*, 2009. Vol. 2131, pp. 59-67.
63. Dawood, M., Guddati, M. and Rizkalla, S., "Effective Splices for A CFRP Strengthening System for Steel Bridges and Structures," *Transportation Research Record of the National Academics, Structures*, 2009. Vol. 2131, pp. 125-133.

64. Mast, R., Dawood, M., Rizkalla, S. and Zia, P., Closure to “Flexural Design of Concrete Beams Reinforced with High Strength Steel Reinforcing Bars,” *ACI Structural Journal*, 2009. Vol. 106, Issue 4, pp. 551-552.
65. Mast, R., Dawood, M., Rizkalla, S. and Zia, P., “Flexural Design of Concrete Beams Reinforced with High-Strength Steel Reinforcing Bars,” *ACI Structural Journal*, September/October 2008. Vol. 105, Issue 4, pp 570-577.
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293. Zia, P., Mirza, J. F. and Rizkalla, S., *Static and Fatigue Tests of Composite T-Beams Containing Prestressed Concrete Tension Elements*, Proceedings of the Transportation Research Board Annual Meeting, Washington, D.C., January 19-23,

Invited Keynote Papers:

1. “Innovative use of FRP for Precast Concrete” 10th Austroads Bridge conference, April 3-6, 2017, Melbourne, Australia.
2. “Effective Use of FRP for strengthening Steel Structures and Bridges”, The 9th Annual Alexandria International Conference on Structural and Geotechnical Engineering, December 19-

- 21, 2016, Alexandria, Egypt.
3. "Effective and Economical Use of FRP for Civil Structures", Innovation Day, University of Manitoba, Winnipeg, Manitoba, Canada, October 26, 2016.
 4. "Advancements in the Design and Construction of Precast Concrete members for buildings", The Sixth Annual Conference of the Structural Engineers Association of North Carolina, Raleigh, NC, October 9-10, 2014.
 5. "Innovative use of FRP for Precast Concrete Structures", ASCE North Carolina Second Annual Meeting, Asheville, NC, September 11-12, 2014.
 6. "Structural Engineering Research at NCSU," The annual meeting of Georgia/Carolina PCI, Hilton Head, South Carolina, June 12-15, 2014.
 7. "Effective Research through Industry/University Collaboration," The Eight Alexandria International Conference on Structural and Geotechnical Engineering, Alexandria, Egypt, April 14-16, 2014.
 8. "Use of FRP Sustainable Precast Concrete Structure," CSI 2013 Symposium on Innovations in Construction, Swinburne University of Technology, Melbourne, Australia, December 10, 2013.
 9. "Behavior and Analysis of Precast Prestressed Concrete Sandwich Wall Panels reinforced with CFRP Grid," Federal Univeristy of San Carlos (UFS Car), July 10, 2013.
 10. "Analytical and Rational Modeling of Precast Slender Spandrel Beams," Federal Univeristy of San Carlos (UFS Car), July 10, 2013.
 11. "FRP for Sustainable Precast Products," the 3rd Brazilian Conference on the Integration of Research Design Production in the Field of Precast Concrete, San Carlos, Brazil, July 8-9, 2013.
 12. "Advancing Eco-Concrete Technology for a Lifetime Sustainability," the 3rd International Seminar on Concrete Technoloy Green Concrete Technology Innovation, Diponegoro University, Semarang, Indonesia, June 4, 2013.
 13. "Innovative Use of FRP for Sustainable Precast Concrete Structures," 2013 Tulane Engineering Forum, New Orleans, LA, April 5, 2013.
 14. "Use of FRP for Sustainable Precast Structures," ACUN-6 International Composites Conference: Composites Nanocomposites in Civil, Offshore, and Mining Infrastructure, Monash Univeristy, Melbourne, Australia, November 14-16, 2012.
 15. Invited Keynote Presentation for the Lecture Series of the PCI - Foundation, "Innovative Use of FRP for Precast Concrete," University of North Florida, Jacksonville, Florida, February 9, 2011.

16. "Meeting Engineering Needs through the Use of Fiber Reinforced Polymer (FRP) Materials," Bridges 2010 Conference, Raleigh, NC, February 22, 2010.
17. Current and Future Vision of the Use of FRP for Civil Infrastructures, International Conference of Fiber Reinforced Polymer for Reinforced Concrete Structures, (FRPRCS-9), Sydney, Australia, July 2009.
18. Understanding Design Basics with CFRP, Carolina Spring Conference of the International Concrete Repair Institute, Durham, North Carolina, March 27, 2009.
19. Innovative Use of FRP for the Precast Concrete Industry, Workshop on Concrete Advances & Challenges, Cairo, Egypt, February 14, 2009.
20. Use of CFRP for Strengthening Steel Structures and Bridges, The 21st Session of the Japan Carbon Fiber Manufacturing Association, Tokyo, Japan, February 18-19, 2008.
21. Applications of Fiber Reinforced Polymer in Infrastructure, International Construction Innovations Conference (ICIC 2006), Peoria, Illinois, October 30-31, 2006.
22. High Modulus Carbon Fiber Materials for Retrofit of Steel Structures and Bridges, co-authored with Dawood, M., ACUN-5 International Composites Conference Developments in Composites: Advanced, Infrastructural, Natural and Nano-composites, UNSW, Sydney, Australia, July 11-14, 2006.
23. Repair and Strengthening of Highway Bridges with FRP, co-authored with Dawood, M. and Rosenboom, O., International Conference on Bridge Management Systems – Monitoring, Assessment and Rehabilitation, Cairo, Egypt, March 21-23, 2006.
24. Strengthening of Scaled Steel-Concrete Composite Girders and Steel Monopole Towers with CFRP, International Conference on Future Vision and Challenges for Urban Development, Cairo, Egypt, December 20-22, 2004.
25. Static and Fatigue Performance of 40-year old Prestressed Concrete Girders Strengthened with various CFRP Systems, International Conference: Future Vision and Challenges for Urban Development, Cairo, Egypt, December 20-22, 2004.
26. Strengthening of Steel Structures and Bridges with FRP, COMPOSITES 2004 Conference, Tampa, Florida, October 8, 2004.
27. Strengthening of Steel Structures and Bridges with FRP, Innovative Materials and Technologies for Construction and Restoration, University of Lecce, Lecce, Italy, June 6-9, 2004.
28. FRP Composite Solutions for Civil Infrastructure - A World Perspective, 2003 Technical Conference on Construction, Corrosion and Infrastructure, Las Vegas, April 22, 2003.

29. Guide Specifications from the American Concrete Institute, Technical Conference on Construction, Corrosion and Infrastructure, Las Vegas, April 22, 2003.
30. NCSU's Constructed Facilities Laboratory (CFL) - Fulfilling The Needs of the Construction Industry Through Innovative Research and Product Development/Certification/Training Programs, Lunch Meeting of the Triangle Chapter of the Construction Financial Management Association, NCSU Centennial Campus, January 31, 2003.
31. State-of-the-Art of Concrete-Filled FRP Tubular Structural Members, 3rd Middle East Symposium on Structural Composites for Infrastructure Application (MESC-2), Aswan, Egypt, December 17-20, 2002.
32. FRP: Solution for Infrastructure, University of Minnesota, Civil Engineering Seminar Series, Minneapolis, MO, November 15, 2002.
33. ACI Code Activities on Fiber-Reinforced Polymers (FRP) for Construction with Concrete, Annual Meeting of the American Society of Civil Engineers, Washington, D.C., November 2, 2002.
34. Strengthening of Concrete Structures with FRP, Annual Meeting of the American Society of Civil Engineers, Wilmington, NC, October 2002.
35. Evaluation of ISIS Canada 1995-2002, Structural Health Monitoring Workshop, ISIS Canada Research Network, Winnipeg, Manitoba, Canada, September 19-20, 2002.
36. Rehabilitation of Concrete Structures with FRP, 3rd International Conference on the Behavior of Damaged Structures (DAMSTRUC 2002), Rio de Janeiro, Brazil, July 29-31, 2002.
37. Cost-Effectiveness of Various FRP Strengthening Techniques for Concrete Structures, International Composites Conference on Composite Systems: Macrocomposites, Microcomposites and Nanocomposites, Sydney, Australia, July 21-25, 2002.
38. Rehabilitation of Concrete Structures with FRP, Jornadas Sul-Americanas De Engenharia Estrutural, Brasilia, Brazil, June 27-31, 2002.
39. ACI Design Guidelines on FRP Reinforcements, Transportation Research Board Annual Meeting, Washington, D.C., January 2002.
40. FRP Solutions for Civil Engineering Infrastructures, American Society of Civil Engineers Annual Meeting, Raleigh, NC, September 27, 2001.
41. ACI Guidelines for the Use of FRP for Concrete Structures, International Workshop on Structural Composites for Infrastructure Applications, Cairo, Egypt, May 23-30, 2001.

42. FRP for Infrastructure: The Canadian Perspective, ACUN-2 (Australian Conference on Composites), Sydney, Australia, February 14-18, 2000.
43. Rehabilitation of Structures and Bridges, ACUN-1 (Australian Conference on Composites), Sydney, Australia, February 23-25, 1999.
44. FRP for Innovative Structures, ACUN-1 (Australian Conference on Composites), Sydney, Australia, February 23-25, 1999.
45. ACI Activities Related to FRP, ACUN-1 (Australian Conference on Composites), Sydney, Australia, February 23-25, 1999.
46. Advanced Materials for the New Millennium, 48th Annual Concrete Conference, Minneapolis, Minnesota, December 3, 1998.
47. Smart Bridges and Structures for the New Millennium, ACI Symposium on High Performance Concrete - A Look Back, A Look Ahead, A Tribute to Paul Zia, Houston, Texas, March 24, 1998.
48. Design of Concrete Members Prestressed by FRP, co-authored by A. Abdelrahman, Second International Conference on Composites in Infrastructure, Tucson, Arizona, January 3-6, 1998
49. A New Generation of Civil Engineering Structures and Bridges, Al-Azhar Engineering Fifth International Conference, December 19-22, 1997, Cairo, Egypt, pp. 89-102.
50. Headingley Smart Bridge - A New Generation of Civil Engineering Structures, Western Canada Water and Wastewater Association 49th Annual Conference, November 16-19, 1997, Winnipeg, Manitoba, Canada.
51. A New Generation of Civil Engineering Structures and Bridges, Third International Symposium on Non-metallic (FRP) Reinforcement for Concrete Structures, October 14-16, 1997, Sapporo, Japan, pp. 113-128.
52. Application and Current International Development of the Use of Carbon Fiber Composites in Infrastructure Repair, ICRI/SAMPE Seminar, Newark, New Jersey, October 23, 1997
53. FRP for Large Span Highway Bridge in Canada, co-authored by E. Shehata, A Abdelrahman and G. Tadros, US-Canada-Europe Workshop on Bridge Engineering, July 11-15, 1997, Zurich, Switzerland, pp. 247-254.
54. Shear Strengthening Using CFRP Sheets for a Prestressed Concrete Highway Bridge in Manitoba, Canada, co-authored by R. Hutchinson and A. Abdelrahman, US-Canada-Europe Workshop on Bridge Engineering, July 11-15, 1997, Zurich, Switzerland, pp. 99-106.
55. A New Generation of Civil Engineering Structures and Bridges, Structural Faults and Repair '97, July 8-10, 1997, Edinburgh, Scotland, pp. 11-19.

56. Advanced Composites for Infrastructure Applications, ASCE Structures Congress XV, Portland, Oregon, April 13-16, 1997.
57. Canadian Centre of Excellence (ISIS Canada), ACI Convention, Denver, Colorado, March 14, 1996.
58. Prestressed Concrete with FRP, co-authored by Abdelrahman, A., First International Conference on Composites in Infrastructure, Tucson, Arizona, January 15-17, 1996.
59. Analysis and Design of FRP Prestressed Concrete Structures, ACI Convention, Québec City, Canada, November 10-12, 1995.
60. FRP for the 21st Century, Association Internationale Des Pont Et Charpentes, Groupement belge, Belgische Vereniging, Gent, Belgium, March 23, 1995.
61. FRP Reinforcement for Two Bridges in Canada, Transportation Research Board 74th Annual Meeting, Washington, D.C., January 22-28, 1995.
62. Bolted Connections for GFRP Laminated Structural Members, co-authored by N. K. Hassan, C. H. Rosner., American Society of Civil Engineering Conference, San Diego, California, November 13 -16, 1994.
63. Fiber Optic Structurally Integrated Sensing of a New Highway Bridge, co-authored by Measures, Alavie, Maaskant, Ohn, Huang, Tadros, American Concrete Institute Fall Convention, Tarpon Springs, Florida, October 1994.
64. Horizontal Connections for Precast Concrete Load-Bearing Shear Walls in Seismic Zones, American Concrete Institute Spring Conference, San Francisco, California, March 21-28, 1994.
65. National Lecture Tour - Advanced Composite Materials in Bridges and Structures Network of Canada, Regina, Saskatoon, Victoria, Vancouver, Edmonton, Canada, February to March 1994.
66. National and International Activities on the Use of Advanced Composite Materials for Civil Engineering Applications, Canadian Institute of Industrial Technology, Winnipeg, Canada, May 11, 1993.
67. Behavior of the Connection for Precast Concrete Shear Wall Load Bearing Subjected to Seismic Loads, co-authors J. West and K. Soudki, American Concrete Convention, Vancouver, Canada, March 31, 1993.
68. Use of Advanced Composite Material for Civil Engineering Application, General Lecture, International Colloquium on Structural Engineering, Cairo, Egypt, April 16, 1992 and Alexandria University, Alexandria, Egypt, April 21, 1992.
69. Use of Advanced Composite Materials for Civil Engineering Application, Emerging Technologies Workshop organized by Canadian Institute of Industrial Technology, Winnipeg, Canada, April 2,

- 1992.
70. Joints, Connections and Anchorages of Advanced Composite Bridge Materials, CSCE Annual Conference, Vancouver, Canada, May 29, 1991.
 71. Durability of Concrete, Annual Meeting of the External Advisory Committee of the Transport Institute, University of Manitoba, Winnipeg, Canada, May 16, 1991.
 72. Evaluation of Linseed Oil as a Concrete Sealer, co-authored by J. Wright and Zhenjia Shen, 82nd Annual Meeting and Exposition of the American Oil Chemists Society, Chicago, Illinois, May 15, 1991.
 73. Horizontal Post-tensioned Connections for Precast Concrete Load-bearing Shear Wall Panels, co-authored by R. L. Hutchinson, M. Lau and S. Heuvel, Precast/Prestressed Concrete Institute Annual Convention, Las Vegas, Nevada, October, 1990.
 74. Advances in Construction Materials, A Half-day Forum on New Materials Technologies and their Application in Canadian Industry, organized by the Association of Professional Engineers of the Province of Manitoba, Manitoba Research Council and the University of Manitoba, Winnipeg, Canada, October 17, 1989.
 75. Behavior and Design of the Connection of Shear Wall Load-bearing Panels, Department of Civil Engineering, University of Alberta, Edmonton, Canada, October 6, 1988.
 76. Post-tensioned Connections for Precast Load-bearing Shear Wall Panels, co-authored with R. Hutchinson, ACI Annual Convention, San Diego, California, October 1989.
 77. Connections for Precast Load-Bearing Shear Wall Panels, School of Civil Engineering, University of New South Wales, New South Wales, Australia, September 7, 1989.
 78. Canadian Standard and Design of Concrete Structures in Canada, Taisei Corporation, Shinjuku-ku, Tokyo, Japan, July 11, 1988.
 79. Behavior of the Shear Connections Typically used for Load Bearing Wall Panels, Kajima Institute of Construction Technology, Chofu-Shi, Tokyo, Japan, June 23, 1988.
 80. Trends in Engineering Education in Canada, Yamanashi University, Kufo, Japan, June 17, 1988.
 81. Trends in Engineering Education in Canada, Nagaoka University of Technology, Nagaoka, Japan, June 8, 1988.
 82. Welded Wire Fabric as Shear Reinforcement under Static and Cyclic Loading Conditions, Nuclear Power Engineering Test Centre, Abiko, Japan, June 2, 1988.

83. Welded Wire Fabric as Shear Reinforcement under Static and Cyclic Loading Conditions, Institute of Technology, Shimizu Corporation, Tokyo, Japan, May 30, 1988
84. Behavior of the Connections used for Precast Concrete Highrise Structures, Department of Civil Engineering, The University of Newcastle, New South Wales, Australia, March 11, 1988
85. University/Industrial Research Interaction in Canada, School of Civil Engineering, University of New South Wales, New South Wales, Australia, March 9, 1988
86. Behavior of the Connections used for Precast Concrete Highrise Structures, School of Civil and Mining Engineering, University of Sydney, Sydney, Australia, March 8, 1988
87. Limit States Behavior of the Connections used for Precast Concrete High Rise Structures, University of Technology, Sydney, Sydney , Australia, March 3, 1988
88. Movement of House Foundations on Winnipeg Clay, co-authors L. Domaschuk and D. Flatt, Canadian Geotechnical Society, Winnipeg Branch, Living with Soil Movement, Winnipeg, Canada, February 1986
89. Behavioral Load Testing of the Disraeli Facility, The Canadian Society for Civil Engineering, Local Chapter, Winnipeg, Canada, April 2, 1985
90. Loading Facility Erected in 60 Hours, Precast/Prestressed Concrete Institution Convention, Chicago, Illinois, November 3, 1983
91. Behavior of Prestressed Concrete Containment Structures Due to Overpressure, University of Queensland and New South Wales University, Australia, March 1981
92. Air Leakage Characteristics in Reinforced Concrete, The American Concrete Institute Annual Convention, Las Vegas, Nevada, March 1980

Technical Presentations:

1. "Behavior, Modeling and Design of Infill Masonry Wall Strengthened with FRP Using Various End Anchorage," ACI Convention, Philadelphia, Pennsylvania, October 27, 2016.
2. "Splice Length of Mild Steel Reinforcing Bars to Prestressed Strands within the Transfer Zone," PCI Convention and National Bridge Conference, Nashville, TN, March 1-5, 2016.
3. "Behavior and Design of Loaded Ledges of Short Span L-Shaped Beams," PCI Convention and National Bridge Conference, Nashville, TN, March 1-5, 2016.
4. "Improving the Durability of Coastal Bridges with Carbon FRP Prestressing Cored Slabs," ACI Convention, Kansas City, MO, April 13, 2015.

5. "Innovative use of FRP for Precast Concrete Products," University of Illinois at Urbana-Champaign, Champaign, IL, November 16, 2014.
6. "FRP for Sustainable Precast Concrete Double Tees," ACI Convention, Washington, D.C., October 26-28, 2014.
7. "Proposed Revisions to Extend Bridge Design Specifications to Concrete Compressive Strength up to 18 Ksi," 2013 PCI Conventions and National Bridge Conference, Grapevine, TX, September 20, 2013.
8. "Behavior and Design of Directly-Loaded L-shaped Beam Ledges," 2013 PCI Conventions and National Bridge Conference, Grapevine, TX, September 19, 2013.
9. "Behavior and Design of Directly Loaded, L-shaped Beam Ledges," PCI Convention, Washington, D.C., September 6- 9, 2014.
10. "FRP for Sustainable Precast Concrete Structures," The Hong Kong Polytechnic University, Hong Kong, May 31, 2013.
11. "CFRP Grid/Rigid Insulation Connector for Concrete Sandwich Panels," Carbon Cast College Workshop, Chicago, IL, April 24, 2013.
12. "CFRP Grid for Sustainable Precast Concrete Double Tees," Carbon Cast College Workshop, Chicago, IL, April 24, 2013.
13. "Strengthening of Infill URM walls subject to Out-of-Plane Bending," ACI Sub-Committee 440-M FRP Repair of Masonry Structure, 2013 ACI spring Convention, Minneapolis, MN, April 15, 2013.
14. "*Innovative Use of FRP for Sustainable Precast Concrete Structures*," Waterloo University, Ontario, Canada, April 10, 2013.
15. "*Realities of Camber and Deflection Predictions for Prestressed Concrete Bridge Girders*," Predicting camber in prestressed concrete members, American Council of Engineering companies of North Carolina Bridge Workshop, Raleigh, NC, October 15, 2012.
16. "*Behavior and Design of Directly-Loaded L-shaped Beam Ledges*," PCI Convention and National Bridge Conference, Nashville, TN, September 29-October 2, 2012.
17. "*New Applications for FRP in Infrastructure Repair*," The 91st Annual Convention of the Transportation Research Board, Washington, D.C., January 22-26, 2012.
18. "*Innovative use of FRP for the Precast Concrete Industry*," The Third International Congress and Exhibition, PCI Annual Convention, Salt Lake City, NV, November 2011.
19. "Prediction of Camber and Deflection for Prestressed Concrete Bridge Girders", North Carolina Department of Transportation, Raleigh, NC, November 17, 2011.

20. “*Behavior of Composite Concrete Sandwich Panels Reinforced with FRP Grid Shear Mechanism*,” Korea Institute of Construction Technology, Seoul, Korea, June 23, 2011.
21. “*Concrete Structures Reinforced with High-Performance Steel Bars: Behavior, Design and Applications*,” Korean Concrete Institute, Seoul, Korea, June 22, 2011.
22. “*Sustainable Precast using Carbon-Fiber Reinforced Polymer (CFRP) Grid*,” *Achieving Sustainability with Prestressed Concrete Series*, PCI Convention, Cincinnati, OH, October 2011.
23. “*Bond and Shear Behavior of Reduced Unit Weight Concrete Flexural Members Using LSP Additive*,” Research in Progress Session, ACI Convention, Chicago, IL, March 27, 2010.
24. “*Identifying Damage Location in Bridge Girders: An essential step for Bridge Prognostics*,” Poster, The fourth annual DHS University Network Summit, March 10-12, 2010, Washington D.C. (Co-author Mosavi, Elsaid and Seracino)
25. “*Application of Fiber-Reinforced Polymer Material in the Prestressed/Precast Concrete Industry*,” Korea Institute of Construction Technology, Seoul, Korea, December 13, 2009.
26. “*Micro-Composite Multi-Structural Formable Steel (MMFX) ASTM A 1035 Steel*,” Korea Institute of Construction Technology,” Seoul, Korea, December 13, 2009.
27. “*Development of a Rational Design Methodology for Precast, Prestressed Concrete Spandrel Beams*,” Technical/Research Track Education Sessions, PCI Annual Convention/PCI National Bridge Convention, September 13, 2009, San Antonio, TX.
28. “*Innovative Applications of FRP in Civil Infra-Structures*,” Meeting of the Structural Engineering Association of North Carolina, Raleigh, NC, June 6, 2009
29. “*Understanding Design Basics with CFRP*,” Carolina Spring Conference of the International Concrete Repair Institute, Durham, North Carolina, March 27, 2009.
30. “*Development of Rational Design Methodology for Precast Prestressed Concrete Spandrel Beams*,” ACI Convention, March 16, 2009.
31. “*Innovative Use of FRP for the Precast Concrete Industry*,” Workshop on Concrete Advances & Challenges, Cairo, Egypt, February 14, 2009.
32. “*Proposed Revisions to Extend Bridge Design Specification to Concrete Compressive Strengths up to 18 Ksi (124MPa)*” Transportation Research Board 2009 Annual Meeting, January 13-14, 2009.
33. “*High Modulus CFRP Strengthening System for Steel Structures and Bridges*,” U.S. – South America Workshop: Innovative Materials for Civil Infrastructure, Research and Education, Santiago, Chile, October 13-15, 2008.
34. “*State-of-Practice on the Use of FRP in Precast/Prestressed Concrete Industry*,” PCI Convention, Orlando,

- FL, October 7, 2008.
35. *“Thermally and Structurally Efficient Composite Sandwich Panels”*, PCI Convention, October 7, 2008.
 36. *“Carbon Fiber Grid Reinforced Toppings of Precast Concrete Systems Subjected to Diaphragm Action”*, Seismic Design & Research Issues Session, PCI Convention, Orlando, FL October 6, 2008
 37. *“Development of a Rational Design Methodology for Precast Prestressed Concrete Spandrel Beams”*, Leveraging Technology with Marketing for Future Industry Growth, PCI Convention, October 5, 2008, Orlando, FL
 38. *“Design Approaches for Shear and Torsion in Slender Spandrel Beams”*, ACI 445 Shear and Torsion Committee, Los Angeles, California, March 31, 2008.
 39. *“Proposed Design Guidelines for L-shaped Prestressed Spandrel Beam”*, Prestressed Concrete Institute Convention, Phoenix, Arizona, October 20, 2007.
 40. *“Use of High Performance Steel Reinforcing Bars for Concrete Structures”*, American Concrete Institute, 2007 Fall Convention, Fajardo, Puerto Rico, October 16, 2007.
 41. *Use of High-Performance Steel Reinforcing Bars for Concrete Structures*, Research in Progress Session, ACI Fall Convention, Puerto Rico, October 14-18, 2007.
 42. *“Research Activities of NCSU Constructed Facilities Laboratory”* Meeting of the Triangle Chapter of the Construction Financial Management Association”, October 9, 2007.
 43. *Strengthening of Steel – Concrete Composite Bridge With High Modulus CFRP Strips*”, Presentation to FRP Virtual Team Web-conference, Tuesday, October 9, 2007.
 44. *“Troubled Bridge Over Water”*, North Carolina Museum of Natural Science and SIGMA X1, Raleigh, N.C., September 25, 2007.
 45. *“Use of High Modulus CFRP for Strengthening Steel Bridges”* FHWA , *Bridge Technology*, Washington, D. C., September 13, 2007.
 46. *Strengthening Steel Bridges with Composites*, Special Interest Session: FRP Composites-Proven Performance in Bridge Construction, 24th Annual International Bridge Conference, June 5, 2007.
 47. Project 12-64—Flexural and Axial Force Provisions, co-authored with Zia, P. and Mirmiran, A., Session on Results of NCHRP Projects on High-Strength Concrete, ACI Spring Convention, Atlanta, Georgia, April 24, 2007.
 48. *Coordinated Research on Bond of ASTM A1035 Reinforcement: First Progress Report*, co-authored with Zia, P., Browning, J., Darwin, D., and Jirsa, J., Research in Progress Session, ACI Spring Convention, Atlanta, Georgia, April 23, 2007.
 49. *Durability of Concrete Beams Prestressed with CFRP*, co-authored with Mertol, H., Scott, P., Lees, J, El-Hacha, R., and Rizkalla, S., Research in Progress Session, ACI Spring Convention, Charlotte,

- North Carolina, March 27, 2006.
50. *Behavior of RC Bridge Decks Using MMFX Steel*, Transportation Research Board 85th Annual Meeting, TRB Committee AHD30: Structures Maintenance Meeting, Washington, D.C., January 23, 2006.
 51. *Full-Scale Testing of Bridge Decks Reinforced with High Strength Steel*, co-authored with Seliem, H., Lucier, G., Rizkalla, S., and Zia, P., 85th Annual Transportation Research Board (TRB) Meeting, Washington, D.C., January 22-26, 2006.
 52. *Innovative FRP Materials for Civil Engineering Infrastructure Applications*, co-authored with Rizkalla, S. and Sumner, E., Composites 2005, Columbus, Ohio, September 28-30, 2005.
 53. *Value Engineering of Various FRP Systems for Strengthening of 43 Year Old Prestressed Girders*, Transportation Research Board 84th Annual Meeting, TRB Committee AFF80: Structural Fiber Reinforced Plastics Meeting, Washington, D.C., January 10, 2005.
 54. *Behavior of 43-year old Prestressed Bridge Girders Strengthened with various FRP Systems*, Innovative Materials and Technologies for Construction and Restoration conference (IMTCR 2004), Lecce, Italy, June 6-9, 2004.
 55. *Analysis and Design of FRP Reinforced Concrete Bridges*, FHWA Conference, Syracuse, New York, August 7-8, 2003.
 56. *Beam-Column Behavior of Circular and Rectangular Concrete-Filled FRP Tubes*, co-authored with Fam, A., Flisak, B. and Schnerch, D., ACI Fall Convention, session on the FRP Stay-In-Place Form, Phoenix, Arizona, October 2002.
 57. *High Performance Steel Reinforcing Bars*, co-authored with El-Hacha, R. and Faza, S., ACI Spring Convention, Detroit, Michigan, April 22, 2002.
 58. *ACI Fiber-Reinforced Plastic Reinforcement Specification*, Transportation Research Board Annual Meeting, Washington, D.C., January 2002.

Technical Reports:

1. Seracino, R., Lucier, G., Rizkalla, S. and Shapack, G., "CFRP Strands in Prestressed Cored Slab Units," Submitted to North Carolina Department of Transportation, September 2015.
2. Rizkalla, S., Lucier, G. and Kazem, H., "Shear Transfer Mechanism of Concrete Sandwich Panels connected by Neopor RCFRP Grid," No. IS-15-01, Submitted to AltusGroup, Inc., January 2015.
3. Kazem, H., Guaderrama, L., Seliem, H. and Rizkalla, S., "CRFP 'FORCA' Strands for Shear Strengthening of Steel Bridge Girders," No. RD-14-04, Submitted to Nippon & Sumikin Materials, Co. Ltd., Japan, June 19, 2014.

4. ElSafty, A., Benmokrane, B., and Rizkalla, S., “Degradation Assessment of Internal Continuous Fiber Reinforcement in Concrete Environment,” Submitted to Florida Department of Transportation, October, 2013.
5. Lunn, D., Lucier, G. and Rizkalla, S., “Strength of Uncracked and Cracked Double-Tees Subjected to Uniform Load,” Technical Report IS-13-08, submitted to AltusGroup Inc. by the North Carolina State University Department of Civil, Construction, and Environmental Engineering, Constructed Facilities Laboratory (CFL), Raleigh, North Carolina, July 2013.
6. Sopal, G. and Rizkalla, S., “Proposed Design equation to estimate the shear flow of C-Grid Precast Concrete Sandwich Panels,” Submitted to AltusGroup, Inc., July 2013.
7. Tabrizi, S. and Rizkalla, S., “Strengthening of Steel Structure with Carbon Fiber Reinforced Polymer (CFRP),” No. RD-13-01, Submitted to Nippon Steel Company, Japan, May, 2013.
8. Lucier, G. and Rizkalla, S., “Bond of FRP Sheets to Steel,” Submitted to Structural Technologies, LLC, NCSU, Constructed Facilities Laboratory, Raleigh, NC, March 2013.
9. Rizkalla, S., Kazem, H. and Lucier, G., “Behavior of Insulated Concrete Sandwich panel with GFRP Grids under sustained load and outdoor exposures,” No. IS-13-13, Submitted to Korea Institute of Construction Technology, 2013.
10. Lucier, G. and Rizkalla, S., “Material Tests of the Freyssinet Foreva CFRP System: Interlaminar Shear,” Submitted to Freyssinet, Inc., NCSU, Constructed Facilities Laboratory, Raleigh, NC, December 2012.
11. Lucier, G. and Rizkalla, S., “Tests of Welded Connections between Precast Double-Tees and Inverted T-Girders,” Submitted to Metromont Corporation, NCSU, Constructed Facilities Laboratory, Raleigh, NC, December 2012.
12. Nafadi, M., Rizkalla, S., Zia, P., and Lucier, G., “Behavior and Design of Directly loaded L-Shaped Beam Ledges – Phase I,” No. RD-12-01, Submitted to PCI, October 2012.
13. Soriano, J., and Rizkalla, S., “Use of Glass Fiber Reinforced Polymers for Innovative Insulated Concrete Sandwich Panels,” No. RD-11-06, Submitted to Korean Institute of Construction Technology, June 2012.
14. Forsyth, M., Lucier, G., and Rizkalla, S., “Flexural Tests of Concrete-Filled FRP Composite Piling”, Technical Report, Submitted to Lancaster Composites, NCSU, Constructed Facilities Laboratory, Raleigh, NC, March 2012.
15. Mielke, B., Lucier, G., and Rizkalla, S., “Shear Tests of Beams Strengthened with the Freyssinet Foreva CFRP System”, No. IS-12-04, Submitted to Freyssinet, Inc., NCSU, Constructed Facilities Laboratory, Raleigh, NC, January 2012.
16. Mielke, B., Lucier, G., and Rizkalla, S., “Flexural Tests of Beams Strengthened with the Freyssinet Foreva CFRP System”, No. IS-12-03, Submitted to Freyssinet, Inc., NCSU, Constructed Facilities

- Laboratory, Raleigh, NC, January 2012.
17. Mielke, B., Lucier, G., and Rizkalla, S., “Flexural Tests of Slabs Strengthened with the Freyssinet Foreva CFRP System”, No. IS-12-02, Submitted to Freyssinet, Inc., NCSU, Constructed Facilities Laboratory, Raleigh, NC, January 2012.
 18. Mielke, B., Lucier, G., and Rizkalla, S., “Axial Compression Tests of Columns Strengthened with the Freyssinet Foreva CFRP System”, No. IS-12-01, Submitted to Freyssinet, Inc., NCSU, Constructed Facilities Laboratory, Raleigh, NC, January 2012.
 19. Bunn, W., Lucier, G., and Rizkalla, S., “Evaluation of Parameters Influencing the CGRID Shear Transfer Mechanism in Precast Concrete Sandwich Panels – 18 Additional Tests”, No. IS-11-12, Submitted to AltusGroup, NCSU, Constructed Facilities Laboratory, Raleigh, NC, June 2011.
 20. Bunn, W., Lucier, G., and Rizkalla, S., “Push Tests on Precast Sandwich Panel Specimens with Sand Blasted XPS Foam Insulation”, No. IS-11-11, Submitted to Metromont Corporation, NCSU, Constructed Facilities Laboratory, Raleigh, NC, June 2011.
 21. Bunn, W., Lucier, G., and Rizkalla, S., “Direct Tensile Strength of Precast Concrete Sandwich Panels Reinforced with CFRP Grid”, No. IS-11-10, Submitted to AltusGroup, NCSU, Constructed Facilities Laboratory, Raleigh, NC, June 2011.
 22. Bunn, W., Lucier, G., and Rizkalla, S., “Evaluation of the Toray-Toray CGRID/Foam Shear Transfer Mechanism in Precast Concrete Sandwich Wall Panels”, No. IS-11-09, Submitted to Chomarat, NCSU, Constructed Facilities Laboratory, Raleigh, NC, June 2011.
 23. Bunn, W., Lucier, G., and Rizkalla, S., “Push Tests on Precast Sandwich Panel Specimens with AC70 Foam Insulation”, No. IS-11-08, Submitted to Metromont Corporation, NCSU, Constructed Facilities Laboratory, Raleigh, NC, June 2011.
 24. Bunn, W., Lucier, G., and Rizkalla, S., “Age Effect on the the Interface Bond of Expanded Polystyrene (EPS) and Concrete for Precast Concrete Sandwich Wall Panels”, No. IS-11-06, Submitted to AltusGroup, NCSU, Constructed Facilities Laboratory, Raleigh, NC, February 2011.
 25. Ragan, D., Lucier, G., and Rizkalla, S., “Behavior of Two-Story Precast Concrete Ribbed Wall Panels”, No. IS-10-11, Submitted to Metromont Corporation, NCSU, Constructed Facilities Laboratory, Raleigh, NC, June 2010.
 26. Lucier, G. and Rizkalla, S., “Full-Scale Testing of Precast Architectural Panels”, No. IS-10-04, Submitted to AltusGroup, NCSU, Constructed Facilities Laboratory, Raleigh, NC, March 2010.
 27. Seliem, H., Lucier, G. and Rizkalla, S., “*Strengthening of Precast Lightweight FRC Panels with Tyfo® SEH-51A GFRP Sheets*,” No. IS-10-03, Submitted to Fyfe Co. LLC, NCSU, Constructed Facilities Laboratory, Raleigh, NC, March 2010.
 28. Ding, L., Lucier, G., Rizkalla, S., and Seliem, H., “Use of C-Grid for Precast Concrete Piles”, No. IS-10-02, Submitted to AltusGroup, NCSU, Constructed Facilities Laboratory, Raleigh, NC, February 2010.

29. Lucier, G. and Rizkalla, S., "*Bond Tests of SAS High-Strength Threaded Bars: AC237*", No. IS-09-11, Submitted to SAS Stressteel, NCSU, Constructed Facilities Laboratory, Raleigh, NC, February 2010.
30. Ding, L. and Rizkalla, S., "Behavior of CFRP Grid as Reinforcement for Concrete Progress Report No. 1 Piles," Technical Report, IS-09-16, Submitted to AltusGroup, NCSU, Constructed Facilities Laboratory, Raleigh, NC, October 2009.
31. Rizkalla, S., Hosny, A., Heiser, M. and Zia, P., "*Use of Expanded Polystyrene Spheres to Produce Concrete with Reduced Unit Weight*," Technical Report, RD-09-05, Submitted to NOVA, NCSU, Constructed Facilities Laboratory, Raleigh, NC, October 2009.
32. Rizkalla, S., Hosny, A., Heiser, M. and Zia, P., "*Use of Expanded Polystyrene Spheres to Produce Concrete with Reduced Unit Weight*," Technical Report, RD-09-04, Submitted to NOVA, NCSU, Constructed Facilities Laboratory, Raleigh, NC, October 2009.
33. Rizkalla, S., Hosny, A., Heiser, M. and Zia, P., "*Use of Expanded Polystyrene Spheres to Produce Concrete with Reduced Unit Weight*," Technical Report, RD-09-02, Submitted to NOVA, NCSU, Constructed Facilities Laboratory, Raleigh, NC, July 2009.
34. Rizkalla, S. and Lucier, G., "*Behavior of 42' EPS Altus Wall Panel*", Technical Report, IS-09-13, Submitted to AltusGroup, NCSU, Constructed Facilities Laboratory, Raleigh, NC, July 2009.
35. Rizkalla, S. and Lucier, G., "*Bond Tests of High Strength Threaded Bars: AC237*", Technical Report, IS-09-11, Submitted to SAS Stress Steel, NCSU, Constructed Facilities Laboratory, Raleigh, NC, June 2009.
36. Lucier, G., Walter, T., Rizkalla, S., Zia, P. and Klein, "*Development of a Rational Design Methodology for Precast Spandrel Beams*", Technical Report, IS-09-10, Submitted to Precast/Prestressed Concrete Institute, NCSU, Constructed Facilities Laboratory, Raleigh, NC, May 2009.
37. Hariharan, V., Lucier, G., Rizkalla, S. and Zia, P. "*Behavior of Full-Sized Compact L-Girders*", Technical Report, IS-09-09, Submitted to Metromont, NCSU, Constructed Facilities Laboratory, Raleigh, NC, May 2009.
38. Lucier, G., Dawood, M. and Rizkalla, S., "*Thermal Testing of Hardwire Bridge Armoring Components*", Technical Report, IS-09-07, Submitted to Hardwire, LLC, NCSU, Constructed Facilities Laboratory, Raleigh, NC, March 2009.
39. Hosny, A., Dawood, M. and Rizkalla, S., "*Evaluation of Recron 3s Polypropylene Fibers for Use in Precast Concrete Members*," Technical Report, IS-09-01, Submitted to Metromont Corporation, NCSU, Constructed Facilities Laboratory, Raleigh, NC, January 2009.
40. Hosny, A., Heiser, M., Dawood, M., Rizkalla, S. and Zia, P., "*Use of Expanded Polystyrene Spheres to Produce Reduce Weight Concrete*," Technical Report, RD-09-01, Submitted to Nova Chemicals, NCSU, Constructed Facilities Laboratory, Raleigh, NC, February 2009.

41. Lunn, D., Hariharan, V., Lucier, G., Seliem, H. and Rizkalla, S., "*Testing of Strengthening Brick Walls with FRP Sheets*", Technical Report, IS-09-03, Submitted to Fyfe Company, LLC, NCSU, Constructed Facilities Laboratory, Raleigh, NC, February 2009.
42. Lucier, G., Sharkawi, A. and Rizkalla, S., "*Testing of Connection Plates Embedded in Precast Concrete Hollowcore Planks*", Technical Report, IS-09-02, Submitted to Oldcastle Precast, NCSU, Constructed Facilities Laboratory, Raleigh, NC, January 2009.
43. Dawood, M., Rizkalla, S., and Taylor, E., "*Testing Program for Transonite RDP0009 Panel with Internal Web Skins*", Technical Report, IS-08-07, Submitted to Martin Marietta Composites, NCSU, Constructed Facilities Laboratory, Raleigh, NC, August 2008.
44. Lucier, G., Walter, C., Sumner, E. and Rizkalla, S., "*Full Scale Testing of Prestressed Double-Tees Reinforced with CFRP Grid*", Technical Report, IS-08-02, Submitted to Altus Group, NCSU, Constructed Facilities Laboratory Raleigh, NC, July 2008.
45. Seliem, H., Nelson, L., Seracino, R. and Rizkalla, S., "*Testing of V-Wrap C100/C200 High Strength Carbon Fiber Strengthening System for ICC-ES*", Technical Report submitted to Structural Group, NCSU, Constructed Facilities Laboratory (CFL), Raleigh, NC May 2008.
46. Lucier, G., Frankl, B. and Rizkalla, S., "*Behavior of Altus Wall Panels: Part 3 Tests of 20' XPS Panels*", Technical Report: IS-08-01, submitted to AltusGroup, North Carolina State University (NCSU), Constructed Facilities Lab (CFL), Raleigh, North Carolina, January 2008.
47. Rizkalla, S., Zia, P., and Mirmiran, A., "*Application of the LRFD Bridge Design Specification to High-strength Structural Concrete: Flexure and Compression Provisions*" Final Report to NCHRP Project 12-64, National Cooperative Highway Research Program Report 595, October 25, 2007.
48. Walter, C., Lucier, G., Dawood, M., Rizkall, S., "*Evaluation of the CFRP Material used for the Sunshine Skyway in Florida*", Technical Report: IS-07-12, submitted to MMFX Technologies, Inc., North Carolina State University (NCSU), Constructed Facilities Lab (CFL), Raleigh, North Carolina, July 2007.
49. Lucier, G., Frankl, B. and Rizkalla, S., "*Behavior of Altus Wall Panels: Part 2 Tests of 20' XPS Panels*", Technical Report: IS-07-11, submitted to AltusGroup, North Carolina State University (NCSU), Constructed Facilities Lab (CFL), Raleigh, North Carolina, July 2007
50. Lucier, G., Frankl, B. and Rizkalla, S., "*Behavior of Altus Wall Panels: Part 1 Tests of 20' XPS Panels*", Technical Report: IS-07-09, submitted to AltusGroup, North Carolina State University (NCSU), Constructed Facilities Lab (CFL), Raleigh, North Carolina, July 2007.
51. Rizkalla, S., Zia, P. and Sumpter, M., "*Behavior of High Performance Steel as Shear Reinforcement for Concrete Structures*", Research Report: RD-07-03, submitted to the MMFX Technologies Corporation, North Carolina State University (NCSU), Constructed Facilities Lab (CFL), Raleigh, North Carolina, June 2007.
52. Seliem, H., Hosny, A. and Rizkalla, S., "*Evaluation of Bond Characteristics of MMFX Steel*", Research Report: RD-07-02, submitted to the MMFX Technologies Corporation, North Carolina State

- University (NCSU), Constructed Facilities Lab (CFL), Raleigh, North Carolina, June 2007.
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Chair/Member of technical Presentations:

1. ACI 440.9R-15 “Guide to accelerated conditioning Protocols for Durability and External Fiber Reinforced Polymer (FRP) Reinforcement”, ISBN: 978-1-942727-17-0, May 2015.
2. ACI 440.1R-15 “Guide for the Design and Construction of Structural Concrete Reinforced with Fiber-Reinforced Polymer (FRP) Bars”, March 2015.
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6. ACI 423.8R – 10 “*Report on Corrosion and Repair of Gouted Multistrand and Bar Tendon Systems*”, Published by the American Concrete Institute, 2010.
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14. ACI Special Publication SP-245, *Case Histories and Use of FRP for Prestressing Applications*, published by the American Concrete Institute, November 2007. (Co-Chair)
15. ACI 440.4R-04, *Prestressing Concrete Structures with FRP Tendons*, published by the American Concrete Institute, December 2004. (Chair)
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17. ACI-SP 215, *Field Application of FRP Reinforcement: Case Studies*, published by the American Concrete Institute, September 2003. (Co-Chair)
18. ACI 440.1R-03, *Guide for the Design and Construction of Concrete Reinforced with FRP Bars*, published by the American Concrete Institute, May 2003. (Chair)
19. ACI 440.2R-02, *Guide for the Design and Construction of Externally Bonded FRP Systems for Strengthening Concrete Structures*, published by the American Concrete Institute, October 2002. (Chair)
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21. ACI SP-188, *Fourth International Symposium on Fiber Reinforced Polymer Reinforcement for Reinforced Concrete Structures*, published by the American Concrete Institute, March 1999. (Co-Chair).

CHAIRPERSON OF THE PH. D. ADVISORY COMMITTEE:

1. Khalaf Alla, Omar, Ph. D., North Carolina State University, 2017
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18. Carneiro, Ronaldson, Ph. D., North Carolina State University, co-chair University of Brasilia, 2006
19. Reis, Engin, Ph. D., North Carolina State University, 2005
20. Filho, José Neres da Silva, Ph. D., North Carolina State University, Co-chair, University of Brasilia, 2005
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22. Foud, Al-Douba Ph.D. Alexandria University, Egypt, 2003
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25. Fam, Amir, Ph. D., North Carolina State University, 2000
26. Hutchinson, Robin, Ph. D., North Carolina State University, 1999
27. Shehata, Emile, Ph. D., North Carolina State University, 1999
28. Mahmoud, Zaki, Ph. D., North Carolina State University, 1997
29. Hassan, Nahla, Ph. D., North Carolina State University, 1995
30. Abdelrahman, Amr, Ph. D., North Carolina State University, 1995
31. Soudki, Khaled, Ph. D., North Carolina State University, 1999
32. Uppal, S., Ph. D., North Carolina State University, 1990

PH. D. EXTERNAL EXAMINER:

1. Tomlinson, Douglas, Ph.D., Queen's University, Canada, 2015
2. Christian, Abraham, Ph.D., The National University of Singapore, 2015
3. Agarwal, Ankit, Ph.D., The University of New South Wales, 2014
4. Robin, Kalfat, Ph.D., Swinburne University, 2013
5. Lin, Zhisheng, Ph.D., National University of Singapore, 2013

6. Salmah Krem, Ph.D., Waterloo University, 2013
7. Han Ay Lie, Ph.D., Diponegoro University, 2013
8. Rinaldi, Remo, Ph.D., Concordia University, 2012
9. EL_Sokkary, Hossam. Ph.D., Concordia University, 2012

Training of Highly Qualified Personnel

Student Name	Thesis Title	Status	Year Supervised
Khala Alla, Omar	“Durability of Concrete Beams prestressed by CFRP strands”	Ph.D.	2017
Kazem, Hamid	“ <i>Shear Strengthening of Steel Bridge Girders Using Small-diameter CFRP Strands,</i> ”	Ph.D.	2016
Khala Alla, Omar	<i>Design and Behavior of ledges for Short Span L-shaped Spandrel Beams,</i>	M.S.	2015
Botros, Amir Wagih	<i>Behavior and Design of Dapped Ends of Prestressed Concrete Thin-Stemmed Members</i>	Ph.D.	2015
Guaderrama, Lucas	<i>Strengthening of Steel Web plates using CFRP</i>	M.S.	2014
Miller, Bryant Leroy Hensby	<i>Synergistic effect Loading and Environmental Conditions on the Degradation of Pultruded Glass Fiber-Reinforced Polymers</i>	M.S.	2014
Farshchi Tabrizi, Salar	<i>Strengthening of Steel Structures with Carbon Fiber Reinforced Polymer (CFRP),</i>	M.S.	2013
Nafadi, Mohamed	<i>Analytical Modeling and Behavior of Ledges of L-shaped Beams,</i>	M.S.	2013
Soriano, Jonathan	<i>GFRP Shear Grid for Precast, Prestressed Concrete Sandwich Wall Panels,</i>	M.S.	2013
Lunn, Dillon	<i>Behavior and Modeling of Infill Masonry Walls Strengthened with FRP using Various End Anchorage,</i>	Ph. D.	2012
Soliman, Judy	<i>Behavior of Reinforced Concrete Beams Strengthened with Externally Bonded Fiber/Steel Reinforced Polymers and Grancrete</i>	Ph. D.	2012

Lucier, Greg	<i>Development of a Rational Design Methodology for Precast Concrete Slender L-Shaped Spandrel Beams,</i>	Ph. D.	2012
Bunn, William	<i>CFRP Grid/Rigid Foam Shear Transfer Mechanism for Precast, Prestressed Concrete Sandwich Wall Panels</i>	M.S.	2011
Mielke, Benjamin	<i>Advanced Fiber Strengthening Systems for Reinforced Concrete Structures,</i>	M.S.	2011
Mielke, Brian	<i>Effective Carbon Fiber Reinforced Polymer Strengthening System for Reinforced Concrete Structures</i>	M.S.	2011
Mady, M.H.A.,	<i>Seismic Behavior of Exterior Beam-Column Joints Reinforced with FRP Bars and Stirrups</i>	Ph. D.	2011
Vogel, Hugues M.,	<i>Serviceability of Concrete Beams Reinforced with FRP and Concrete Prisms Prestressed with FRP</i>	Ph. D.	2011
Storm, Tyler	<i>Predicting Camber, Deflection, and Prestress Losses in Prestressed Concrete Members</i>	M.S.	2011
Ragan, David Michael	<i>Behavior of Efficient Two-Story Precast Concrete Wall Panels,</i>	M.S.	2011
Obregon-Salinas, Adolfo Javier,	<i>Use of Grancrete as Adhesive for Strengthening Reinforced Concrete Structures</i>	M.S.	2010
Hosny, A	<i>Behavior of Concrete Member Containing Lightweight Synthetic Particle,</i>	Ph. D.	2010
Heiser, M. J	<i>The Shear Behavior of Reduced Unit Weight Concrete Using Lightweight Synthetic Particle</i>	M. S.	2010
Mosavi Khandan, A.	<i>Vibration-Based Damage Detection and Health Monitoring of Bridges,</i>	Ph. D.	2010
Hariharan, V	<i>Behavior of Precast Compact L-Shaped Spandrel Beams</i>	M.S.	2009
Taylor, E.,	<i>Two-Way Behavior and Fatigue Performance of 3-D GFRP Sandwich Panels,</i>	M.S.	2009
Lunn, D.,	<i>Behavior of Infill Masonry Walls Strengthened with FRP Materials</i>	M.S.	2009
Stanford, K.,	<i>Strengthening of Steel Structures with High Modulus Carbon Fiber Reinforced Polymers Materials</i>	M.S.	2008
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Dawood, M.,	<i>Bond Characteristics and Environmental Durability of CFRP Materials for Strengthening Steel Bridges and Structures</i>	Ph. D.	2008
Walter, C.,	<i>Behavior of Slender, Precast L-Shaped Spandrel Beams,</i>	M.S.	2008
Munikrishna, A	<i>Shear Behavior of Concrete Beams Reinforced with High Performance Steel Shear Reinforcement</i>	M.S.	2008
Frankl, B.,	<i>Structural Behavior of Precast Prestressed Concrete Sandwich Panels Reinforced with CFRP Grid</i>	M.S.	2008
Mantawy, A.,	<i>Behavior of High-Strength Steel as Shear Reinforcement for Concrete Beams,</i>	Ph. D.	2008
Reham M. El Tahawy,	<i>Flexural Behavior of Concrete Beams Reinforced With High Strength and Corrosive Resistant Steel</i>	M.S.	2008
Soliman, J.,	<i>Bond Characteristics of High Strength Steel Reinforcements for Concrete Structures</i>	M.S.	2007

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