Anthony J. Lamanna, P.E., Ph.D, F.ACI, F.ASCE

DrTony@lamannaengineering.com

EDUCATION

University of Wisconsin, Ph.D., 2002, Civil Engineering – Structures
University of Wisconsin, M.S., 2001, Engineering Mechanics
Purdue University, M.S.C.E., 1998, Civil Engineering – Construction Materials
The Catholic University of America, B.C.E., 1997, Civil Engineering – Construction Management

EXPERIENCE

Associate Professor of Construction Management — *2017 - Present*
Program Chair, Del E. Webb School of Construction — *2017 - Present*
Sundt Professor of Alternative Delivery Methods & Sustainable Development — *2017- Present*
Senior Sustainability Scientist, Julie Ann Wrigley Global Institute of Sustainability — *2017 - Present*
Del E. Webb School of Construction
School of Sustainable Engineering and the Built Environment
Ira A. Fulton Schools of Engineering
Arizona State University — Tempe, AZ

- Teach undergraduate and graduate courses for construction management and construction engineering students.
- Lead the Del E. Webb School of Construction (DEWSC) in pursuing outside support from alumni and industry.
- Assist faculty in their research pursuits.
- Research areas that are pertinent to the industry.
- Conduct scholarly work in technical areas through presentations, seminars, code development, and publications.
- Lead the transition of the construction management program to a student learning outcome (SLO) based curriculum.
- Lead the program through a successful American Council for Construction Education (ACCE) accreditation.
- Begin curriculum renovation to meet new Accreditation Board for Engineering Technology (ABET) criteria for construction management programs.
- Support the two DEWSC centers: the Western OSHA Education Center and Construction in Indian Country.

Chief Engineer *2010 - Present*
Consulting Structural Engineer *2005- Present*
President *2006 - 2009*
Lamanna Engineering Consultants, LLC New Orleans, LA

- Conduct site inspections of residential and commercial building structures.
- Write engineering reports of structural damage caused to buildings as a result of wind loads, contact with flood waters, settlement, overloads, improper design, neglect, and other causes.
- Write structural engineering certificates for the issuance of builder's risk insurance.
- Design structures with unique framing plans.
- Monitor structural response of residential and commercial buildings to vibrations caused by street traffic.
- Monitor structural response of bridges due to highway traffic.
- Design repair methods for structures, and oversee installation.
- Provide expert reports to both plaintiff's and defendant's legal representation.
- Provide expert reports as a court-appointed expert.

Associate Professor of Construction Management *2016 - 2017*
Assistant Professor of Construction Management *2013 - 2016*
Department of Applied Engineering and Technology
Eastern Kentucky University Richmond, KY

- Taught undergraduate courses in structures, soils, and materials for construction management and fire protection and safety engineering technology students.
- Created a construction materials laboratory through donations and grants.
- Conducted scholarly work in technical areas through presentations, seminars, code development, and publications.
- Led the transition of the construction management program to student learning outcome (SLO) based curriculum.
- Led the program through a successful American Council for Construction Education (ACCE) accreditation.
- Began curriculum renovation to meet new Accreditation Board for Engineering Technology (ABET) criteria for construction management programs.

Adjunct Professor *2008, 2010 - 2013*
Dept. of Civil and Environmental Engineering, University of New Orleans

- Taught courses as needed by the department.

Assistant Professor *2002 - 2007*
Dept. of Civil and Environmental Engineering, Tulane University New Orleans, LA

- Wrote research grants for submission to state, federal, and private funding agencies.
- Conducted research on grants for state, federal, and private agencies (see list).
- Served as major advisor 6 MS students and 2 Ph.D. students.
- Taught graduate and undergraduate courses in structural analysis, design, and mechanics (see list).
- Created a connection testing laboratory.
- Equipped a structural and materials testing laboratory with over $200,000 in equipment from grants and donors.
- Wrote and published archival papers for nationally and internationally recognized journals (see list).

Visiting Assistant Professor *Fall 2005*
Dept. of Construction Systems, University of Nebraska – Lincoln Omaha, NE

- Continued research and student advising for Tulane University after Hurricane Katrina.
- Assembled and developed the M.S. program in construction with tracks in construction engineering and construction management.
- Wrote and submitted grants with University of Nebraska faculty.

PUBLICATIONS

Books and Book Sections

Lamanna, A. (Author) "Better Late than Never." In Blythe, H., Sweet, C., Carpenter, R. (Eds.), *It Works for Me, Metacognitively: Shared Tips for Effective Teaching*, 2016.

Lamanna, A. (Author) "The Group Exam: Studying to Teach." In Blythe, H., Sweet, C., Carpenter, R. (Eds.), *It Works for Me, Metacognitively: Shared Tips for Effective Teaching*, 2016.

Lamanna, A. J., *Coastal Construction: An Illustrated Mitigation & Strengthening Guide*, International Code Council, 98p., 2011.

Journal Papers

Lamanna, A. J., "Hydrogen Embrittlement Testing of Concrete Screws," *American Concrete Institute Materials Journal*, Vol. 114, No. 1, pp. 15 – 19, January/February 2017.

Olsen, J., Pregartner, T., and **Lamanna, A. J.**, "Basis for Design of Screw Anchors in Concrete," *ACI Structural Journal*, Vol. 109, No. 4, pp. 559 – 568, July/August 2012.

Martin, J. A., and **Lamanna, A. J.**, "The Performance of Mechanically Fastened FRP Strengthened Concrete Beams in Flexure," *ASCE Journal of Composites in Construction*, Vol. 12, No. 3, pp. 257 – 265, May/June 2008.

Selcuk, S., and **Lamanna, A. J.**, "Feasibility Investigation of Oriented Straw Cable Cement Composites," *Composites Part A: Applied Science and Manufacturing*, Vol. 38, No. 9, pp. 1965 – 1974, September 2007.

Akbiyik, A., **Lamanna, A. J.**, and Hale, W. M., "Feasibility of Shear Repair of Timber Stringers with Horizontal Splits," *Construction and Building Materials*, Vol. 21, No. 5, pp. 991-1000, May 2007.

Lok, M. S., and **Lamanna, A. J.**, "Analysis of Turkish RC Arch Bridge," *ASCE Journal of Performance of Constructed Facilities*, Vol. 20, No. 3, pp. 274-280, August 2006.

Lamanna, A. J., Bank, L.C., and Borowicz, D.T., "Mechanically Fastened FRP Strengthening of Large Scale RC Beams," *International Journal of Advances in Structural Engineering*, Vol. 7, No. 6, pp. 525-538, December 2004. **Won Best Paper of the Journal of 2004**

Lamanna, A. J., Bank, L. C., and Scott, D. W., "Flexural Strenthening of RC Beams by Mechanically Attaching FRP Strips," *ASCE Journal of Composites in Construction*, Vol. 8, No. 3, pp. 203-210, May-June 2004. **Won ASCE Best Basic Research Paper of 2004**

Lamanna, A. J., Bank, L. C., and Scott, D. W., "Flexural Strengthening of RC Beams Using Fasteners and FRP Strips," *ACI Structural Journal*, Vol. 98, No. 3, pp. 368-376, May-June 2001.

Bank, L. C., Gentry, T. R., Nuss, K. H., Hurd, S. H., **Lamanna, A. J.**, Duich, S. J., Oh, B., "Construction of a Pultruded Composite Structure: A Case Study," *ASCE Journal of Composites in Construction*, Vol. 4, No. 3, pp. 112-119, August 2000.

Published Conference Papers

Lamanna, A., & Arias, S., "Hardening Light Frame Timber Structures for Coastal Hazards." Imperial College, London: *Structural Faults and Repair – 2014*.

Brown, V. L., Bank, L.C., Arora, D., Borowicz, D.T., Godat, A., **Lamanna, A. J.**, Lee, J. Matta, F., Napoli, A., and Tan, L. H., "Experimental Studies of Mechanically-Fastened FRP Systems: State-of-the-Art," *Fiber Reinforced Polymer Reinforcement for Concrete Structures*, American Concrete Institute, SP-275, 2011.

Yeşilmen, S., **Lamanna, A. J.**, and Piringer, G., "Oriented Straw Cable Composites for Housing Applications," *11DMBC International Conference on Durability of Building Materials and Components*, Istanbul, Turkey, May 2008.

Lamanna, A. J., Metrovich, B., and Martin, J., "Hurricane Katrina: An Overview of Damage to Timber Structures," *11DMBC International Conference on Durability of Building Materials and Components*, Istanbul, Turkey, May 2008.

Velazquez, G. I., Ray, J. C., Borowicz, D. T., **Lamanna, A. J.**, Arora, D., and Bank, L. C., "Tests of Reinforced Concrete T-Beams Retrofitted with Mechanically Anchored Fiber reinforced Polymer (FRP) Plates," *First international Conference on Bridge Maintenance, Safety, and Management*, IABMAS, Barcelona, July 2002.

Lamanna, A. J., Bank, L. C., Borowicz, D. T., and Arora, D., "Strengthening of Concrete Beams with Mechanically Fastened FRP Strips," *Third International Conference on Composites in Infrastructure, San Francisco*, CA, June 2002.

Lamanna, A. J., Bank, L. C., and Scott, D. W., "Rapid Flexural Strengthening of Full Scale RC Beams Using Powder Actuated Fasteners and FRP Strips," *FRPRCS-5 Fiber Reinforced Plastics for Reinforced Concrete Structures*, University of Cambridge, UK, Vol. 1, pp. 389-397, July 16 - 18, 2001.

Ray, J. C., Scott, D. W., **Lamanna, A. J.**, and Bank, L. C., "Flexural Behavior of Reinforced Concrete Members Strengthened Using Mechanically Fastened Fiber Reinforced Polymer Plates," *22nd Army Science Conference*, Baltimore, Maryland, 11 - 13 December 2000.

Published Reports

Lamanna, A. J., Akbiyik, A., Ray, J.C., and Velazquez, G. I., *Feasibility Investigation into Strengthening of Timber Bridge Stringers*, US Army Corps of Engineers Engineer Research and Development Center, ERDC/GSL TR-07-14, May 2007

Lamanna, A. J., Lok, M., Ray, J. C., Velazquez, G. I., Stanton, T. R., *Assessment of Foreign Bridge Standards and Techniques*, US Army Corps of Engineers Engineer Research and Development Center, ERDC/GSL TR-04-9, September 2004.

Bank, L. C., Borowicz, D. T., Arora, D., **Lamanna, A. J.**, Velazquez, G. I., and Ray, J. C., *Strengthening of Concrete Beams with Fasteners and Composite Material Strips – Scaling and Anchorage Issues*, US Army Corps of Engineers Engineer Research and Development Center, ERDC/GSL TR-04-5, July 2004.

Bank, L. C., Borowicz, D. T., **Lamanna, A. J.**, Ray, J. C., and Velazquez, G. I., *Rapid Strengthening of Full-Sized Concrete Beams with Powder-Actuated Fastening Systems and Fiber-Reinforced Polymer (FRP) Composite Materials*, US Army Corps of Engineers Engineer Research and Development Center, ERDC/GSL TR-02-12, July 2002.

Lamanna, A. J., Scholer, C. F., *Design of Durable Concrete Railroad Crossings*, FHWA/IN/JTRP-2002/28, October 2002.

Bank, L. C., **Lamanna, A. J.**, Ray, J. C., an Velazquez, G. I., *Rapid Strengthening of reinforced Concrete Beams with Mechanically Fastened, Fiber-Reinforced Polymeric Composite Materials*, US Army Corps of Engineers engineer Research and Development Center, ERDC/GSL TR-02-4, March 2002.

PROFESSIONAL DEVELOPMENT HOUR COURSES/CERTIFICATION EXAMS

Lamanna, A. (Submitted 2016) Adhesive Anchor Inspector Exam Questions: ACI 355.4-11 Qualification of Adhesive Anchors. (Ed.), *Adhesive Anchor Inspector Exam*. Farmington Mills, MI: American Concrete Institute.

Lamanna, A. (Author) (2015). (Ed.), *ACI 355.2-07 Qualification of Post-Installed Mechanical Anchors in Concrete and Commentary - Chapters 1-6*. Farmington Mills, MI: American Concrete Institute.

Lamanna, A. (Author) (2015). (Ed.), *ACI 355.2-07 Qualification of Post-Installed Mechanical Anchors in Concrete and Commentary - Chapters 7-12*. Farmington Mills, MI: American Concrete Institute.

Lamanna, A. (Author) (2015). (Ed.), *ACI 355.4-11 Qualification of Post Installed Adhesive Anchors in Concrete and Commentary Chapter 7*. Farmington Mills, MI: American Concrete Institute.

Lamanna, A. (Author) (2015). (Ed.), *ACI 355.4-11 Qualification of Post Installed Adhesive Anchors in Concrete and Commentary Chapters 1-3*. Farmington Mills, MI: American Concrete Institute.

Lamanna, A. (Author) (2015). (Ed.), *ACI 355.4-11 Qualification of Post Installed Adhesive Anchors in Concrete and Commentary Chapters 4-5*. Farmington Mills, MI: American Concrete Institute.

GRANTS – Principal Investigator

Feasibility Study: Uses of Waste Fly Ash and Paint," EKU Provost Research Fund, Eastern Kentucky University.

Assessment of Foreign Bridge Standards and Construction Techniques, US Army Corps of Engineers Engineer Research and Development Center, DACA42-03-P-0010.

Assessment of Foreign Bridge Standards, US Army Corps of Engineers Engineer Research and Development Center, W912HZ-04-P-0220.

Concept Study: Bridging Small Gaps, US Army Corps of Engineers Engineer Research and Development Center, W912HZ-04-P-0141.

Data Acquisition System for Civil and Environmental Research, Louisiana Board of Regents Support Fund.

Feasibility Investigation into Strengthening of Timber Bridge Stringers, US Army Corps of Engineers Engineer Research and Development Center, DACA42-03-P-0212.

Remote Strain Measurements of Bayou Bridge, Tulane University Provost's Fund for Faculty-Student Engagement.
Shear Behavior of Powder Actuated Fasteners in Tensile Concrete, Louisiana Board of Regents Support Fund, LEQSF(2003-05)-RD-A-25.
Strain Distribution Within Anchored FRP Material, Tulane University Provost's Fund for Faculty-Student Engagement.
Strengthening of Bridge Beams Using Fiber Reinforced Polymers (FRP), Louisiana Transportation Research Center (took over for Dr. Paul Zeihl).
The Behavior of Concrete Anchors in Shear, Tulane University Provost's Fund for Faculty-Student Engagement.
Value Engineering: Alternative Lock Gate Materials, Ch2MHill.

GRANTS – Co-Principal Investigator

Assessment of Damage to Industrial Facilities and the Resultant Environmental Contamination in New Orleans and the Gulf Coast, National Science Foundation, with Dr. Laura Steinberg (Tulane University).
Development of Repair and Strengthening Methods for End Damage on AASHTO Girders, Oklahoma Transportation Council, with Chris Ramseyer (Oklahoma University).
Monitor Existing and New Bonded Overlay Projects in the State of Oklahoma, Oklahoma Transportation Council, with Chris Ramseyer (Oklahoma University).
Monitoring of Bonne Carre Spillway Overpass During Extreme Live Load, Louisiana Transportation Research Center, with Dr. Paul Ziehl (Tulane University).

COURSES TAUGHT

Eastern Kentucky University
CON 121 Intro to Construction (Undergraduate)
CON 201 Materials and Methods I (Undergraduate)
CON 202 Materials and Methods II (Undergraduate)
CON 303 Statics and Strength of Materials (Undergraduate)
CON 307 Soils and Foundations (Undergraduate)
CON 322 Construction Structural Design (Undergraduate)

University of New Orleans
ENCE 2350 – Statics (Undergraduate)
ENCE 4096 – Advanced Concrete Materials (Undergraduate and Graduate)
ENCE 4096 – Analysis and Design of Composite Structures (Undergraduate and Graduate)
ENCE 4359 – Structural Concrete Design (Undergraduate and Graduate)
ENCE 4358 – Structural Steel Design (Undergraduate and Graduate)
ENCE 6359 – Advanced Concrete Design (Graduate)

Tulane University
CVEN 209 – Numerical Analysis and Computer Methods (Undergraduate)
ENGR 243 – Mechanics of Materials (Undergraduate)
CVRN 414 – Engineering Professional Practice (Undergraduate)
CVEN 443 – Reinforced Concrete Design (Undergraduate)
CVEN 617 – Matrix Structural Analysis (Graduate)
CVEN 665 – Structural Issues Relating to Hurricane Katrina (Graduate)
CVEN 689 – Advanced Mechanics of Materials (Graduate)
CVEN 690 – Advanced Concrete Materials (Graduate)

University of Wisconsin – Madison
CEE 649 – Advanced Concrete Materials (Graduate)

TECHNICAL PRESENTATIONS

Invited Presentations

Lamanna, A. J., "Concrete Charlie", ACI Fall Convention - Revolutionary Concrete, Philadelphia, PA, Refereed, October 27, 2016.
Lamanna, A. J., "Adhesive Anchor Design", American Society for Civil Engineers Annual Meeting, Lexington, KY, October 14, 2016.
Lamanna, A. J., "Applications and Case Studies", HalfMoon Education, Inc., Continuing Education Seminars, Nashville, TN, October 7, 2016.
Lamanna, A. J., "Using Precast and Prestressed Concrete", HalfMoon Education, Inc., Continuing Education Seminars, Nashville, TN, October 7, 2016.
Lamanna, A. J., "Precast Concrete Connections", HalfMoon Education, Inc., Continuing Education Seminars, Nashville, TN, October 7, 2016.
Lamanna, A. J., "Design of Prestressed Components", HalfMoon Education, Inc., Continuing Education Seminars, Nashville, TN, October 7, 2016.
Lamanna, A. J., "Flexural, Shear, and Torsion Stress Design", HalfMoon Education, Inc., Continuing Education Seminars, Nashville, TN, October 7, 2016.
Lamanna, A. J., "Design Codes and Standards for Prestressed Concrete", HalfMoon Education, Inc., Continuing Education Seminars, Nashville, TN, October 7, 2016.
Lamanna, A. J., "Properties of Precast Concrete", HalfMoon Education, Inc., Continuing Education Seminars, Nashville, TN, October 7, 2016.
Lamanna, A. J., "Materials and Techniques for Prestressing Concrete", HalfMoon Education, Inc., Continuing Education Seminars, Nashville, TN, October 7, 2016.
Lamanna, A. J., "Recent IBC Changes in Structural Design and Inspection", 2016 Louisiana Civil Engineering Conference and Show, Kenner, LA, September 28, 2016.
Lamanna, A. J., "Case Studies: Lessons Learned," American Council for Construction Education – Annual Meeting, Atlanta, GA, July 22, 2016.
Lamanna, A. J., "Case Study of a Project Management Failure: 1976 Montreal Olympics," KY Finance Cabinet Project Manager Training, Frankfort, KY, June 20, 2016.
Lamanna, A. J., "The Construction Management Program at EKU", *Associated General Contractors of KY Newsletter*, Shannon Woodard (ed.,), April 2016.

Others and *Lamanna, A. J.,* "Second Metacognition Workshop," Teaching and Learning Center, Eastern Kentucky University, Richmond, KY, April 7, 2016.

Lamanna, A. J., "Eastern Kentucky University Construction Management and the Industry," National Institute of Women in Construction 2016 Construction Industry Appreciation Night, Lexington, KY, March 8, 2016.

Lamanna, A. J., "The Building of Buildings, The Advanced Class," Tulane University School of Architecture Comprehensive Studio, New Orleans, LA, February 27, 2016.

Lamanna, A. J., "The Building of Buildings," Tulane University School of Architecture Comprehensive Studio, New Orleans, LA, February 26, 2016.

Lamanna, A. J., "Case Studies: Outcomes Based Standards (OBS)," American Council for Construction Education Annual Meeting, Mobile, AL, February 18, 2016.

Lamanna, A. J., "Load Testing of Existing Dorms to Be Demolished," ACI Fall Convention – Committee 437: Strength Evaluation of Existing Concrete Structures, Denver, CO, November 9, 2015.

Lamanna, A. J., "Hydrogen Embrittlement of Concrete Screw Anchors: Proposed Code Change," ICC-ES Evaluation Committee Hearing, Published in Proceedings, Code Change Accepted, October 15, 2015.

Lamanna, A. J., "Civil Engineering: A Career," Mississippi State University Department of Civil and Environmental Engineering Student Group, Starkville, MS, October 12, 2015.

Lamanna, A. J., "New Orleans Recovery: 10 Years Later," Rotary Club of Richmond, KY, August 5, 2015.

Lamanna, A. J., "Case Studies: Student Learning Outcome Evaluation," American Council for Construction Education Annual Meeting, Louisville. KY, July 24, 2015.

Lamanna, A. J., "Adhesive Anchor Hole Cleaning: The Good and The Bad," American Concrete Institute Spring Convention, Kansas City, MO, April 13, 2015.

Lamanna, A. J., "Screw Anchors: Hydrogen Embrittlement," American Concrete Institute Spring Convention, Kansas City, MO, April 12, 2015.

Lamanna, A. J., "Structural Systems – Graduate Seminar," Tulane University School of Architecture, New Orleans, LA, March 7, 2015.

Lamanna, A. J., "Structural and Form – Undergraduate Seminar," Tulane University School of Architecture, New Orleans, LA, March 6, 2015.

Lamanna, A. J., "Adhesive Anchorage," American Concrete Institute/Concrete Aggregate Association of Louisiana Continuing Education Seminar, Published in Proceedings, March 4, 2015.

Lamanna, A. J., "ACI 318-11/14 Adhesive Anchor Code Requirements," Louisiana Civil Engineering Conference and Show, Kenner, LA, September 25, 2014.

Lamanna, A. J., "Hardening Light Frame Timber Structures for Coastal Hazards," Structural Faults & Repair Conference, London, UK, July 10, 2014.

Lamanna, A. J., and Lamanna, Z., "Ukraine: Politics and Energy," Rotary Club of Richmond, KY, June 4, 2014.

Lamanna, A. J., "Concrete Anchor Design in Accordance with ACI 318 Appendix D," American Society of Civil Engineers New Orleans Branch Continuing Education Seminar, New Orleans, LA, May 22, 2014.

Lamanna, A. J., "Case Hall and Case Annex: Potential Research Prior to Demolition," ACI Fall Convention Committees 437, 440, and Concrete Research Council (3 presentations), Reno, NV, March 24, 2014.

Lamanna, A. J., "Structure and Architects," Tulane University School of Architecture, New Orleans, LA, March 10, 2014.

Lamanna, A.J., "American Licensure and Liability in the Design Professions," Eastern Ukraine Branch of the Examining Architecture and Construction Committee of the Ministry of Regional Construction (Minregionstroy) of Ukraine, September 18, 2012.

Lamanna, A.J., "Design of Timber Structures for Coastal Hazards," Kharkov National Academy of Municipal Economy, Kharkov, Ukraine, September 17, 2012.

Lamanna, A. J., "Concrete Anchor Design in Accordance with ACI 318 Appendix D," ASCE-SEI New Orleans Chapter, January 26, 2012.

Lamanna, A. J., "Anchorage to Concrete," Louisiana ACI Chapter, New Orleans, September 2010.

Lamanna, A. J., "Flood Control in the Netherlands and New Orleans: An Overview," Department of Civil and Environmental Engineering, University of Wisconsin – Madison, October 2008.

Lamanna, A. J., "Residential Damage as a Result of the 17th Street and Industrial Canal Failures," Department of Civil and Environmental Engineering, University of Wisconsin – Madison, October 2005.

Lamanna, A. J., "Strengthening Bridge Structures with Mechanically Fastened FRP Method," Department of Building Engineering, Tongji University, Shanghai, China, December 2004.

Lamanna, A. J., "Bridge Structure Rehabilitation," 2003 Tulane University Engineering Forum, Engineering Technologies for Economic Development, New Orleans, LA September 2003.

Conference Presentations

Lamanna, A.J., "Fiber Reinforced Polymers for Mitigation of Coastal Hazards," American Concrete Institute – American Society of Civil Engineers Louisiana Civil Engineering Conference & Show, Kenner, LA, September 2011.

Lamanna, A. J. and Selcuk, S., "Feasibility Study of Oriented Straw-Cable Cement Composites," American Concrete Institute Fall 2005 Convention, Kansas City, MO, November 2005.

Lamanna, A. J., "The 17th Street Canal Failure: Damage to Residential Structures," American Concrete Institute Fall 2005 Convention, Kansas City, MO, November 2005.

Martin, J. A., and *Lamanna, A. J.*, "Fatigue Behavior of RC Beams Strengthened with FRP and Concrete Screws," American Concrete Institute Fall 2005 Convention, Kansas City, MO, November 2005.

Lamanna, A. J., and Lok, M. S., "Strength Evaluation of Turkish Bridges," American Concrete Institute Fall 2004 Convention, San Francisco, CA, October 2004.

Lamanna, A. J., Bank, L. C., Borowicz, D. T., and Arora, D., "Strengthening of Concrete Beams with Mechanically Fastened FRP Strips," Third International Conference on Composites in Infrastructure, San Fransisco, CA, June 2002.

PATENT

US Patent No. 6,811,861 – Structural Reinforcement Using Composite Strips

PROFESSIONAL AFFILIATIONS

ABET
- Program Evaluator (PEV) for civil and construction engineering programs (2010 – Present)
- Mentor for Construction Management PEVs (2016)

American Concrete Institute (ACI)
- Educational Activities Committee (2016 – 2019). This committee is part of the board of direction of ACI.
- Committee 355, Anchorage, full voting Member (2003 – Present)
- Committee 375, Performance Based Design of Concrete Buildings for Wind Loads, full voting Member (2008 – Present)
- Committee 440, FRP Materials, Associate Member (2002 – Present)
- Concrete Construction Student Competition Coordinator (2016 – Present)
- ACI 2009 Fall Convention, Social Chairman

American Council for Construction Education (ACCE)
- Training Committee Member (2013 – Present)
- Guidance Committee Member (2016 – Present)

American Society of Civil Engineers (ASCE)
- Fellow
- Associate Editor, Journal of Materials in Civil Engineering (2009 – 2014)

American Society for Testing and Materials (ASTM)
- Committee E.06 Performance of Buildings, full voting member
- Committee E.58 Forensic Engineering, full voting member

HONORS AND AWARDS

Fellow of the American Concrete Institute, 2016, American Concrete Institute.
Distinguished Engineer in Education, 2016, American Society of Civil Engineers Kentucky Section.
Kentucky Colonel, Governor of Kentucky, Community Service, March 27, 2015.
Rising Star in Structural Engineering, Structural Engineer Magazine, March 2013.
ACI Young Member Award for Professional Achievement, 2011
Outstanding Young Civil Engineer, 2008, American Society of Civil Engineers New Orleans Branch
Group Study Exchange, April to May 2008, Rotary District 6840 – Vocational exchange to Zeeland and Brabant in the Netherlands to study flood control
Paul H. and Donna D. Flower Early Career Professorship, 2005 – 2006.
Best Paper of the Journal for 2004 from the Journal of Advances in Structural Engineering
Best Basic Research Paper of 2004 from ASCE and the Journal for Composites in Construction
Thomas Fitch Rowland Prize for best paper in 2002 from ASCE
ACI Scholarship for Graduate Study, 1998

LICENSURE

Louisiana Civil Engineer – PE # 31850
Alabama Civil Engineer – PE #32066
Arizona Civil Engineer – PE # 64154
Kentucky Civil Engineer – PE #29683
New York Civil Engineer – PE #92401
Mississippi Civil Engineer – PE #18956

COMMUNITY INVOLVEMENT

Habitat for Humanity of Madison and Clark Counties (2016 - 2017)
Lot Selection Committee Member

Rotary Club of Phoenix East (2017 – Present)

Rotary Club of Richmond, KY (2013 – 2017)
President (2016 – 2017)
President Elect (2015 – 2016)
Vice President (2014 – 2015)

Rotary Club of New Orleans Riverbend (May 10, 2010 – 2013)
Treasurer (2011 – 2013)
President (2010 – 2011)
Charter Member

This resume was last updated 02-27-2018