

Lisa Elanna Burris

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Education

- 2014** **Ph.D. in Civil Engineering;** (Construction Materials Specialization);
University of Texas, Austin, TX
Dissertation: *Increasing the Reactivity of Zeolites Used as Supplementary Cementitious Materials*. Advisor: Maria Juenger
- 2011** **M.S. in Civil Engineering;** (Transportation Materials Specialization)
Kansas State University, Manhattan, KS;
Thesis: *Diffusivity and Resistance to Deterioration from Freezing and Thawing of Optimized Ternary Concrete Mixture Blends*. Advisor: Kyle Riding
- 2009** **B.S. in Architectural Engineering;** Kansas State University, Manhattan, KS.

Employment

Assistant Professor; January 2017-Present, Department of Civil, Environmental, and Geodetic Engineering, The Ohio State University, Columbus, OH.

Postdoctoral Fellow; August 2014–December 2016, Department of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA; Supervisor: Kimberly Kurtis
Primary Project: *Novel alternative Cementitious Materials for Development of the Next Generation of Sustainable Transportation Infrastructure* (FHWA)

Visiting Researcher; May 2016-July 2016, Ecole des Ponts, ParisTech, Champs-sur-Marne, France; in collaboration with Matthieu VanDamme and Patrick Dangla.

Awards & Honors

- 2014 University of Texas Civil Engineering Department Kolodzy Travel Grant (\$1000)
- 2013 ACI Central Texas Chapter Scholarship (\$2000)
- 2011 National Science Foundation Graduate Research Diversity Supplement
- 2010 K-State University Transportation Center Graduate Student of the Year (\$1000)
- 2010 American Association of University Women (AAUW) Selected Professions Fellowship (\$10,000)
- 2009, 2010 University Transportation Center Scholarship Winner (\$10,000/year)
- 2010 Tau Beta Pi Honor Scholarship (\$4000)
- 2008 Kansas State Marching Band Assistant Section Leader of the Year 2008

Refereed Publications

- Burriss, L.E.**, Alpati, P., Kurtis, K.E., Hajibabae, A., Ley, M.T., “Understanding Shrinkage in Alternative Binder Systems,” In Print – ACI Symposium Publication, 2018 (submitted and accepted Fall 2017).
- Burriss, L.E.**, Kurtis, K.E., “The Influence of Citric Acid as a Set Retarding Agent in Calcium Sulfoaluminate Cement Concrete Mixtures,” *Cement and Concrete Research*, Feb. 2018, 105-113.
- Burriss, L.E.**, Kurtis, K.E., “Performance of Alternative Binders in Sulfate Environments,” ACI Symposium Publication 317, 2017, 1-18.
- Burriss, L. E.**, Juenger, M.C.G., “Calcination as a Technique for Improving the Reactivity of Natural Zeolites used as Supplementary Cementitious Materials,” In Review – Construction and Building Materials, March 2016, rejected Fall 2017, currently revising for resubmission.
- Kurtis, K., **L. Burriss**, and P. Alapati. "Consider functional equivalence: a (faster) path to upscaling sustainable infrastructure materials compositions." *First international conference on grand challenges in construction materials*, Los Angeles, 2016.
- Burriss, L. E.**, Alapati, P., Ley, M.T., Berke, N., Moser, R.D., Kurtis, K.E., “Novel Alternative Cementitious Materials for Development of the Next Generation of Sustainable Transportation Infrastructure, FHWA Techbrief, November 2015, <http://www.fhwa.dot.gov/advancedresearch/pubs/16017/index.cfm>.
- Burriss, L. E.**, Juenger, M.C.G., “The Effect of Acid Treatment on the Reactivity of Natural Zeolites used as Supplementary Cementitious Materials,” *Cement and Concrete Research*, 79 (2016) 185-193. DOI:10.1016/j.cemconres.2015.08.007
- Burriss, L. E.**, Juenger, M., “Milling as a Pretreatment Methods for Increasing the Reactivity of Natural Zeolites for Use as SCMs,” *Cement and Concrete Composites*, 65 (2016) 163-170. DOI:10.1016/j.cemconcomp.2015.09.008
- Burriss, L. E.**, Kurtis, K.E., “Alternative Cementitious Materials – Challenges and Opportunities” *ACI Special Publication 305-27*, (2015), 7 ppgs.
- Clement J. Cros, Alexandra L. Terpeluk, **Lisa E. Burriss**, Neil E. Crain, Richard L. Corsi, Maria C.G. Juenger, “Effect of weathering and traffic exposure on removal of nitrogen oxides by photocatalytic coatings on roadside concrete structures,” *Materials and Structures*, 48, 10 (2015) 3159-3171. DOI:10.1617/s11527-014-0388-2
- Burriss, L.E.**, Riding, K., “Diffusivity of Ternary Mixture Blend Concrete,” *ACI Materials*, 111, 4 (2014) 373-382. DOI:10.14359/51686826

Refereed Conference Proceedings

Hrivak, M., Kajfez, R., **Burriss, L.**, Tan, F., “Interactive Safety Training: A Technological Tool for Fall Protection on Construction Sites,” 2018 ASEE Annual Conference & Exposition, Salt Lake City, UT, June 24-27, 2018.

Marston, S. N., Tan, F. H., Parke, M., Stavaridis, O. M., **Burriss, L. E.**, “Graphical Simulation for Learners to Understand the Construction of Jamaica’s Paramount Treasure: “The Devon House”.” American Society for Engineering Education, Paper #18690, 2017, 1-23, <https://peer.asee.org/graphical-simulation-for-learners-to-understand-the-construction-of-jamaica-s-paramount-treasure-the-devon-house.pdf>.

Burriss, L.E., Kurtis, K.E., “Performance of Alternative Binders in Sulfate Environments,” American Concrete Institute Convention, October 22-26, 2016, Philadelphia, Pennsylvania.

Burriss, L. E., Kurtis, K.E., “Alternative Cementitious Materials – Challenges and Opportunities” International Workshop on Durability and Sustainability of Concrete Structures, October 1-3, 2015, Bologna, Italy.

Non-Refereed Conference Presentations

Berke, N., **Burriss, L.E.**, Alapati, P., Ley, M.T., Moser, R.D., Kurtis, K.E., “Novel Alternative Cementitious Materials for Development of the Next Generation of Sustainable Transportation Infrastructure Initial Key Findings,” Oral presentation given at the ACI Foundation’s Strategic Development Council Technology Forum #38, October 8-9, 2015, Farmington Hills, MI.

Burriss, L.E., Kurtis, K.E., “Understanding Calcium Sulfoaluminate Cement-Admixture Interactions,” Oral presentation given at the meeting of the American Ceramics Society Cements Division: 6th Advances in Cement-based Materials, American Ceramics Society, July 20-22 2015, Manhattan, KS.

Burriss, L.E., Alapati, P., Kurtis, K.E., “Determining Optimum Mixtures Design Parameters for Calcium Sulfoaluminate Cement Concrete,” American Concrete Institute Spring 2015 Convention, April 13, 2015, Kansas City, Missouri.

Kurtis, K.E., **Burriss, L.E.**, Burke, N., Ley, M.T., Moser, R.D., “Novel Alternative Cementitious Materials for Development of the Next Generation of Sustainable Transportation Infrastructure,” Federal Highway Administration EAR Meeting, October 28, 2014, Washington, D.C.

Seraj, S., **Burriss, L.E.**, Juenger, M. “Characterization of Pozzolans: Evaluation of an Accelerated Test Method for Reactivity,” American Concrete Institute Fall 2014 Convention, October 27, 2014, Washington D.C.

Burriss, L.E., Juenger, M., “The Effect of Calcination on the Reactivity of Zeolites Used as Supplementary Cementitious Materials,” American Concrete Institute Spring 2014 Convention, March 25, 2014, Reno, Nevada.

Manuscripts in Preparation

Clark, J.V., **Burriss, L. E.**, Kurtis, K.E., Feraille, A., “Environmental Sustainability of Novel Alternative Cementitious Materials,” in preparation for submission June 2017.

Cardinal, J., Alapati, P., **Burriss, L. E.**, Kurtis, K.E., “Strength and Fatigue of ACM concrete” in preparation for submission June 2017.

Alapati, P., **Burriss, L.E.**, Kurtis, K.E., “Optimizing Alternative Cementitious Materials for Adequate Workability and Constructability,” in preparation for submission June 2017.

Invited Presentations

Burriss, L. E., “Engineering the Infrastructure Materials of the Future” Invited presentation, Midwest Coal Ash Association, April 2017.

Burriss, L. E., “Characterization Techniques for Alternative Cementitious Materials,” Invited presentation, University of Alabama, October 6, 2014, Tuscaloosa, Alabama.

Burriss, L. E., Juenger, M., “Pretreatments to Improve the Reactivity of Natural Zeolites Used as Supplementary Cementitious Materials,” Invited presentation, Georgia Institute of Technology, April 25, 2014, Atlanta, Georgia.

Burriss, L. E., Juenger, M., “Increasing the Reactivity of Zeolites Using Three Pretreatments: Calcination, Acid Treatment, and Milling,” American Concrete Institute, Central Texas Chapter Luncheon, March 13, 2014.

Reports

Crain, N., Juenger, M., Cros, C., Terpeluk, Alexandra, **Burriss, Lisa**, McDonald-Buller, Elena, Sullivan, David, Kimura, Yosuke, Spinhirne, Jarett, Rung, Michael. “Laboratory and Field Studies of Photocatalytic NOx and O3 Removal by Coatings on Concrete,” Texas Department of Transportation Project Number 0-6636, December 2016, <http://library.ctr.utexas.edu/ctr-publications/0-6636-1.pdf>

Burriss, L. E., Alapati, P., Ley, M.T., Berke, N., Moser, R.D., Kurtis, K.E., “Novel Alternative Cementitious Materials for Development of the Next Generation of Sustainable Transportation Infrastructure Quarterly Report covering October-December 2016,” FHWA, 2016.

Burriss, L. E., Alapati, P., Ley, M.T., Berke, N., Moser, R.D., Kurtis, K.E., “Novel Alternative Cementitious Materials for Development of the Next Generation of Sustainable Transportation Infrastructure Quarterly Report covering July–September 2016,” FHWA, 2016.

Burriss, L. E., Alapati, P., Ley, M.T., Berke, N., Moser, R.D., Kurtis, K.E., “Novel Alternative Cementitious Materials for Development of the Next Generation of Sustainable Transportation Infrastructure Quarterly Report covering April-June 2016,” FHWA, 2016.

Burriss, L. E., Alapati, P., Ley, M.T., Berke, N., Moser, R.D., Kurtis, K.E., “Novel Alternative Cementitious Materials for Development of the Next Generation of Sustainable

Transportation Infrastructure Quarterly Report covering January-March 2016,” FHWA, 2016.

Burriss, L. E., Alapati, P., Ley, M.T., Berke, N., Moser, R.D., Kurtis, K.E., “Novel Alternative Cementitious Materials for Development of the Next Generation of Sustainable Transportation Infrastructure Quarterly Report covering October-December 2015,” FHWA, 2015.

Burriss, L. E., Alapati, P., Ley, M.T., Berke, N., Moser, R.D., Kurtis, K.E., “Novel Alternative Cementitious Materials for Development of the Next Generation of Sustainable Transportation Infrastructure Quarterly Report covering July-September 2015,” FHWA, 2015.

Burriss, L. E., Alapati, P., Ley, M.T., Berke, N., Moser, R.D., Kurtis, K.E., “Novel Alternative Cementitious Materials for Development of the Next Generation of Sustainable Transportation Infrastructure Quarterly Report covering April-June 2015,” FHWA, 2015.

Burriss, L. E., Alapati, P., Ley, M.T., Berke, N., Moser, R.D., Kurtis, K.E., “Novel Alternative Cementitious Materials for Development of the Next Generation of Sustainable Transportation Infrastructure Quarterly Report covering January-March 2015,” FHWA, 2015.

Burriss, L. E., Ley, M.T., Berke, N., Moser, R.D., Kurtis, K.E., “Novel Alternative Cementitious Materials for Development of the Next Generation of Sustainable Transportation Infrastructure Quarterly Report covering October-December 2014,” FHWA, 2014.

Burriss, L. E., Ley, M.T., Berke, N., Moser, R.D., Kurtis, K.E., “Novel Alternative Cementitious Materials for Development of the Next Generation of Sustainable Transportation Infrastructure Quarterly Report covering July-September 2014,” FHWA, 2014.

Poster Presentations

Burriss, L. E., Cardinal, J.A., Alapati, P., Kurtis, K. E., “How Fatigue Resistant are Alternative Cementitious Materials Concrete Pavements,” American Concrete Institute Conference Research in Progress Poster Session, November 9, 2015, Denver, CO.

Alapati, P., **Burriss, L. E.**, Moser, R., Ley, T., Berke, N., Kurtis, K. E., “Novel Alternative Cementitious Materials for the Next Generation of Sustainable Transportation Infrastructure,” Georgia Transportation Institute Poster Session, September 23, 2015, Atlanta, GA.

Burriss, L.E., Juenger, M.C.G., “Linking Zeolite Properties and Cementitious Mixture Performance of Mixtures Using Natural Zeolites as SCMs,” Poster presented at the meeting of the American Ceramics Society Cements Division: 5th Advances in Cement-based Materials, American Ceramics Society: Characterization, Processing, Modeling, and Sensing, July 9-11 2014, Cookeville, TN.

Burriss, L.E., Juenger, M.C.G., “The Effect of Pretreatments on the Reactivity of Zeolites Used as Supplementary Cementitious Materials,” Poster presented at the GAIN Poster Session,

University of Texas at Austin, January 29, 2014.

Burris, L.E., Juenger, M.C.G., “The Effect of Calcination on the Reactivity of Zeolites used as SCMs,” Poster presented at the meeting of the American Ceramics Society Cements Division: 3rd Advances in Cement-based Materials, American Ceramic Society: Characterization, Processing, Modeling and Sensing, June 12-12, 2012, Austin, Texas.

Taylor-Lange, S., **Burris, L.E.**, Juenger, M.C.G, Murphy, C., Blackhurst, M., “Life Cycle Analysis of Metakaolin-Cement Binder for use in Concrete,” Poster presented at the meeting of the American Center for Life Cycle Assessment – Life Cycle Assessment XII, September 24-27, 2012, Tacoma, Washington.

Grants

FHWA BAA No. 693JJ3-18-BAA-0001, “Exploratory Advanced Research Program” Topic 4: Supplementary or Alternative Materials for Highway Pavements and Structures, Vol 1. “Advancing Alternative Cementitious Materials for Use in Highway Bridge Structures.” PI with Natassia Brenkus, Co-PIs: Tyler Ley, Oklahoma State University; Kimberly Kurtis, Georgia Institute of Technology. Submitted April 2018. \$702,827 requested. \$936,846. In Review.

FHWA BAA No. 693JJ3-18-BAA-0001, “Exploratory Advanced Research Program” Topic 4: Supplementary or Alternative Materials for Highway Pavements and Structures, Vol 1. “Performance Based Classification Methods for Reclaimed Fly Ash.” PI: Tyler Ley, Co-PI Kimberly Kurtis, Georgia Institute of Technology; Paul Tikalsky and Jake LeFlore, Oklahoma State University; . Submitted April 2018. OSU portion: \$160,000. In Review.

OCDO RFP-2018, “Harvesting Poned Coal Ash for Use in Concrete: Understanding & Overcoming Barriers,” Submitted March 2018. Co-PIs: Tarunjit Butalia, Halil Sezen, Jason Cheng. \$443,729. In Review.

SRE Seed Grant, “Pervious Concrete for Acid Mine Drainage Remediation.” Submitted February 2018. Co-PIs: Linda Weavers, Sayeed Mehmood. \$42,500. In Review.

SRE Seed Grant, “Permeable Concrete Vessel Study.” Submitted February 2018. PI: Jacob Boswell, Co-PIs: Lisa Burris, Nan Hu, Rachel Gabor. \$56,000. Funded.

SRE Seed Grant Letter of Interest, “Energy Foundations for Increased Energy Efficiency on the OSU Campus.” Submitted December 2017. Co-PI: Daniel Pradel. \$41,500. Not funded.

NSF Construction and Manufacturing Materials Institute, “Optimizing the Sustainability and Performance of Calcium Sulfoaluminate Cements Through Understanding of Clinkering Variables,” Submitted September 2017. Co-PI: Jeffery Bielicki. \$399,461. Not funded.

Application to serve as consultant for creation of Transportation Research Board/NCHRP Synthesis 20-05/Topic 49-05, “Concrete Technology for Transportation Applications,” document. Submitted August 2017. \$50,000. Not funded.

EPRI Request for Pre-proposals – Uses for “Off-Spec” Fly Ash – “Use of High Sulfur Fly Ash in Concrete Infrastructure,” Submitted May 2017, \$200,000. Not funded.

ODOT RFP 2018-01 “Evaluation of Effective Bridge Deck Repair Maintenance Methods”
Submitted March 2017. Co-PIs: Natassia Brenkus, Qian Chen, \$51,000. Not funded.

Research Experience

Graduate Research Assistant, 2011–2014, Department of Civil Engineering, University of Texas at Austin, Construction Materials Research Group (CMRG)

New Natural Supplementary Cementitious Materials for Concrete (NSF CMMI 1030972)

Investigation of Alternative Supplementary Cementing Materials, (TxDOT 0-6717)

Photocatalytic NO_x/HRVOC/O₃ Removal in Transportation Applications (TxDOT 0-6636)

Inorganic Polymers: OPC-free Binders for Transportation Infrastructure (FHWA)

Graduate Research Assistant, 2009–2011, Department of Civil Engineering, Kansas State University, Manhattan, Kansas

Diffusivity and Resistance to Damage from Freezing and Thawing of Ternary Mixture Blend Concrete

Structural Research Intern, May–August 2008, Kansas Department of Transportation, Topeka, Kansas

Development and Implementation of Lightweight Concrete Mixes for KDOT Bridge Applications Part A: Development of Lightweight Concrete Mixtures

Undergraduate Research Assistant, January 2008 – December 2008, Department of Civil Engineering, Kansas State University, Manhattan, Kansas

Development and Implementation of Lightweight Concrete Mixes for KDOT Bridge Applications Part B: Evaluating the Bond Performance of Pretensioned Concrete Beams with Different Lightweight Aggregate

Teaching & Mentorship

Instructor of Record

CIVILEN 3510 – Civil Engineering Materials (Instructor of Record), Spring 2018, Department of Civil, Environmental, and Geodetic Engineering, Ohio State University, Columbus, Ohio.

CIVILEN 6888 – Structural Engineering Graduate Student Seminar (Co-Instructor of Record), Spring 2018, Department of Civil, Environmental, and Geodetic Engineering, Ohio State University, Columbus, Ohio.

Soils and Foundations for Construction (Instructor of Record), Spring 2010, 2011, Department of Civil Engineering, Kansas State University, Manhattan, Kansas

Graduate Teaching Assistant

Concrete Materials, Spring 2014, Department of Civil, Architectural and Environmental Engineering, University of Texas at Austin, Austin, Texas

Concrete Pavement and Bridge Repair, Fall 2009, Department of Civil Engineering, Kansas State University, Manhattan, Kansas

Undergraduate Teaching and Laboratory Assistant

Soil Mechanics (as a TA I created and implemented new laboratory projects and improved and updated laboratory projects, redeveloped laboratory policies, grading and student report formats, built new testing apparatus and set up equipment and specimen for lab classes), Spring 2009, Department of Civil Engineering, Kansas State University, Manhattan, Kansas

Graphics (Architectural drafting for engineers), Fall 2007, Department of Architectural Engineering, Kansas State University, Manhattan, Kansas

Mentorship

Graduate Research Mentor, Department of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA August 2014–Present.

Women in Engineering Program “Graduates Linked with Undergraduates in Engineering (GLUE)” Program, Mentor, Department of Civil, Architectural and Environmental Engineering, University of Texas at Austin, Austin, Texas, Spring 2013.

Undergraduate Research Mentor, Department of Civil, Architectural and Environmental Engineering, University of Texas at Austin, Austin, Texas, Spring 2012.

Other Teaching Experience

7th Grade Catechism, August 2013–May 2014, St. Louis King of France Catholic Church.

Industry Work Experience

Bridge Intern, Summer 2009

Signature Bridge Division, HNTB Corporation, Kansas City, Missouri

MEP Engineering Intern, Summer 2007

Smith, Seckman and Reid, Inc., Houston, Texas

Professional Membership

- American Concrete Institute, Member, Spring 2009-Present
 - Committee 123 Voting Member (beginning Nov 2014)
 - Committee 231 Associate Member (beginning November 2015)
 - Committee 201 Associate Member (beginning March 2009)
 - Committee 236 Associate Member (beginning March 2009)
 - Moderator – ACI Convention Open Paper Session, Spring 2015
- American Ceramics Society, Member, Spring 2012-Present

Contributor to Cements Division promotional video:

<https://www.youtube.com/watch?v=g0msyO9i9T4>

- American Concrete Institute Central Texas Chapter, Member, Spring 2011-2014
- Structural Engineers Assoc. of Kansas & Missouri K-State Chapter (SEAKM), Fall 2007-2011
Activities Coordinator, Fall 2009 – Spring 2010

Service

- Reviewer for ASCE Journal of Materials
- Reviewer for the Journal of Nanocomposites
 - Review for ‘NAN192 - Inorganic and organomodified nanoclay dispersions for use as supplementary cementitious materials – a novel theory based on nanostructural studies,’ February 2017.
- ACI Convention Open Topic Presentation Session Moderator, American Concrete Institute Convention, 11/2014-10/2016
- ACI Convention Workability Student Competition Judge, American Concrete Institute Convention, Fall 2016
- Session Moderator, 5th Advances in Cement-based Materials: Characterization, Processing, Modeling and Sensing Conference, Summer 2014
- Reviewer for Construction and Building Materials Journal, 2015-Present
- Reviewer for ASCE Journal for Materials in Civil Engineering, 2011-Present
- Career, Research, and Innovation Development Conference (CRIDC) Poster Session, Abstract Reviewer/Judge, Spring 2014
- Lee Elementary Science Fair Judge, Spring 2014
- GLUE Graduate School & Research Q&A Session Panelist, Spring 2013
- Austin Children’s Museum “Engineer It!” Girl’s Camp Civil Engineering Session Assistant Leader, Summer 2013
- Explore UT – Engineering Open House, Volunteer, Spring 2013
- Introduce a Girl to Engineering Day, Volunteer, Spring 2013

Student’s Committee Membership

Sheena Martson, Graduation: Spring 2017, Advisor: Fabian Tan
“Thesis Title Here”

Denes Zubcsek, Graduation: Spring 2017, Advisor: Hojjat Adeli
“Thesis Title Here”

Caitlin Tinkler, Graduation: Spring 2017, Advisor: Hojjat Adeli
“Thesis Title Here”

Leadership

- KSU Women’s Ultimate Frisbee Club Team, Fall 2009 – Spring 2011
- Team Captain, Fall 2010 – Spring 2011
- Tau Beta Pi Engineering Honorary
- Graduate Student Advisor, Fall 2009 – Fall 2010

- President, Spring 2008
- Vice President, Spring 2007 - Fall 2007
- Editor, Fall 2008 - Spring 2009
- Cataloguer, Fall 2006 - Spring 2007
- Kansas State University Marching Band, Fall 2004 – Fall 2008
- Asst. Section Leader, Marching and Maneuvering Instructor, Fall 2008
- Architectural Engineering Institute Executive Board
- Fundraising Chair, Spring 2005 - Spring 2006
- Webmaster, Spring 2006 - Spring 2007

References

Kimberly E. Kurtis

Professor and College of Engineering Associate Dean for Faculty Development & Scholarship
Georgia Institute of Technology
790 Atlantic Ave.
Atlanta, GA 30332
Phone: (404) 385-0825
Email: kimberly.kurtis@ce.gatech.edu

Maria C.G. Juenger

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Julia Keen

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