

Christopher C. E. Ramseyer

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EDUCATION

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| Ph.D. | University of Oklahoma (December 2005) Major: Structural Engineering Advisor: Kyran Mish Ph.D. Dissertation: <i>Axial Load Capacity of Cold-Formed Steel Sections</i> |
| M.S. | University of Oklahoma (December 1999) Major: Civil Engineering Advisor: Bruce Russell Ph.D., P.E. Thesis: <i>Investigation of Very Early Strength Concrete with Low Shrinkage Properties</i> |
| B.S. | University of Oklahoma (May 1998) Major: Civil Engineering, Engineering GPA = 4.0/4.0 |

REGISTRATION

State of California Professional Engineer, License No. C 61767
State of Oklahoma Professional Structural Engineer, Registration No. PE 20860
State of Wyoming Professional Engineer, License No. PE 14509
State of Texas Professional Engineer, License No. 128564
State of North Carolina Professional Engineer, License No. 049034

PROFESSIONAL AWARDS AND HONORS

- 2021 Outstanding Journal Paper Award for 2019 from ASCE Journal of Performance of Constructed Facilities
- 2018 Elected Fellow of American Concrete Institute
- 2016 The University of Oklahoma Vice President for Research Award for Improving Quality of Life and Communities.
- 2016 University of Oklahoma, Presidential International Travel Fellowship
- 2013 Creativity Oklahoma Renaissance Award from the Building Bridges, State of Creativity Forum
- 2013 Best Paper Award, for "Post-Damage Repair of Prestressed Concrete Girders" From the Korea Concrete Institute to Ramseyer, C., and Kang, T.
- 2013 The National Council of Structural Engineers Associations, Excellence in Structural Engineering Award, for the engineering design of SkyDance Bridge.
- 2013 BP DEVAS and BP Engineering Academy, Best Breakout Session Award
- 2012 Urban Design Citation Award as part of the Awards of Excellence Program from AIA Central Oklahoma with SXL for the Oklahoma City SkyDance Bridge.
- 2012 ENR (Engineering News Record) Award of Merit for the Oklahoma SkyDance Bridge in the Best Transportation Project classification for Texas, Oklahoma and Louisiana.
- 2012 IDEAS², National Certificate of Recognition from the American Institute of Steel Construction (AISC) for SkyDance Bridge
- 2012 Oklahoma City SkyDance Bridge is named as one of the 50 best public art projects by the Americans for the Arts
- 2012 P3 (People, Prosperity and the Planet) Award from the U.S. Environmental Protection Agency (EPA), with C. Graham, D. Butko, W. McManus and L. Holliday

- 2012 American Society of Civil Engineers, Commendation for Exceptional Service as Faculty Advisor
- 2012 Innovator of the Year Award, with SXL for the Oklahoma City SkyDance Bridge., The Journal Record Publishing Company
- 2011 George W. Tauxe, Outstanding Professor Award, University of Oklahoma
- 2010 Must-read Paper Picked by Editor-in-Chief, International Journal of Theoretical and Applied Multiscale Mechanics (IJTAMM), Inderscience Publisher, Ltd.
- 2008 First Place – Oklahoma City Bridge Competition with Butzer Design Partnership, for the Oklahoma City SkyDance Bridge.
- 2008 BP Professor Award, (awarded by the DEVAS and Eng. Academy students)
- 2007 Alumni Teaching Award, OU College of Engineering
- 2004 George W. Tauxe, Outstanding Professor Award, University of Oklahoma
- 2003 Most Dedicated Canoe Person of the Year (awarded by the OU-CEES students)
- 2002 Commitment Award (awarded by the OU-CEES students)
- 1998 Chi Epsilon, Civil Engineering Honor Society
- 1998 OSPE Engineering Achievement Award
- 1996-1998 OU President's Honor Roll
- 1996-1998 OU Dean's Honor Roll
- 1997 The National Dean's List
- 1997 G. B. Treat Memorial Scholarship
- 1996 R. L. O'Shields Scholarship

ENGINEERING EMPLOYMENT EXPERIENCE

| | | |
|---------------------|---|--------------------|
| Principle | Ramseyer and Associates PLLC | 10/13 to present |
| Professor Emeritus | University of Oklahoma, Norman, Oklahoma School of Civil Engineering and Environmental Science | 1/25/21 to present |
| Professor | University of Oklahoma, Norman, Oklahoma School of Civil Engineering and Environmental Science | 5/19 to 1/25/21 |
| Director | Donald G. Fears Structural Engineering Laboratory | 5/08 to 1/25/21 |
| Associate Professor | University of Oklahoma, Norman, Oklahoma School of Civil Engineering and Environmental Science | 7/12 to 5/19 |
| Assistant Professor | University of Oklahoma, Norman, Oklahoma School of Civil Engineering and Environmental Science | 1/06 to 6/12 |
| Adjunct Professor | University of Oklahoma, Norman, Oklahoma School of Civil Engineering and Environmental Science | 8/00 to 12/05 |

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|-----------------------------|--|--------------|
| Senior Design Engineer | Star Building Systems, Oklahoma City, Oklahoma. <ul style="list-style-type: none"> Complete structural design of primary and secondary structure for 425+ buildings Complexity 1-10 buildings, including multi-crane systems, mezzanines, canopies, roof top units, explosion venting and loading, skewed walls, hips and valleys, etc. Building Codes: IBC, FEMA 302, UBC, BOCA and SBC | 2/99 to 8/03 |
| Graduate Research Assistant | University of Oklahoma, Norman, Oklahoma B. Russell Ph.D., P.E., School of Civil Engineering and Environmental Science <i>The development of statewide Portland cement patching products and procedures</i> | 1/97 to 1/99 |
| Teaching Assistant | University of Oklahoma, Norman, Oklahoma H. Gruenwald Ph.D., and J. Laguros Ph.D., P.E., Civil Engineering and Environmental Science <ul style="list-style-type: none"> Technical support for AutoCad Land Surveying lab assistant | 1/96 to 1/97 |

RESEARCH RELATED EXPERIENCE

Summary: To date, I have secured \$4,360,250 in total research funding, with \$2,137,452 in individual research credit. This includes 49 projects, 37 where I served as Principal Investigator. Of the 44 projects funded, 14 are National/International grants, 13 are State grants, 16 are Industry-sponsored research, and 1 is a University grant.

Additionally, I have raised \$1,572,184 in direct donations to support research, \$321,000 in kind material donations directly related to research, \$82,900 in laboratory equipment donations, and \$640,000 in capital improvement donations. Total value of these donations is \$2,616,084

National / International Grants

- Assessment of Partial Joint Penetration Welds Test on Bolted End-Plate Connections
P.I.: Chris Ramseyer
Sponsor: Metal Building Manufacturing Association (MBMA)
Amount: \$20,000
Duration: 9/1/18 to 12/31/20
- Developing 100 Year, Large Slab, Airport Runways”
P.I.: Chris Ramseyer co-P.I.: Steve Roswurm
Sponsor: National Academies of Sciences
Amount: \$6,000 (personal credit \$6,000)
Duration: 9/1/17 to 9/1/18
- “RAPID Response Research Grant to study residential lateral resistance systems”
P.I.: Chris Ramseyer co-P.I.: Lisa Holliday & Royce Floyd
Sponsor: National Science Foundation
Amount: \$7,000 (personal credit \$6,000)
Duration: 5/21/13 to 6/14/13
- “RET (Research Experience for Teachers) Site: Strengthening a K12 Learning Community through Engineering Research”
P.I.: Chen Ling co-P.I.: Mark Nanny, U. Matthias, Randa Shehab, Hazem Refai, Patricia Hardre, Chris Ramseyer
Sponsor: National Science Foundation
Amount: \$300,000.00 (personal credit \$10,000)
Duration: 7/1/10 to 1/14/12

5. "Stability of concrete slabs on grade considering shrinkage and a moisture gradient"
P.I.: Chris Ramseyer, OU
Sponsor: Oklahoma Transportation Center
Amount: \$199,000.00 (personal credit \$199,000)
Duration: 1/15/10 to 1/14/12
6. "Optimum cable barrier design and placement for the state of Oklahoma"
P.I.: Chris Ramseyer, OU co-P.I.: Wilson Brewer, Langston University
Sponsor: Oklahoma Transportation Center
Amount: \$275,000.00 (personal credit \$150,000)
Duration: 1/15/10 to 1/14/12
7. "Evaluation of the Effectiveness of ODOT's Cable Barrier Program"
P.I.: Chris Ramseyer, OU
Sponsor: Oklahoma Transportation Center
Amount: \$84,422.00 (personal credit \$84,422)
Duration: 10/01/09 to 9/31/10
8. "Facilitated Experimental Learning Program – Camp Concrete"
P.I.: Wilson Brewer, Langston University Co-P.I.: Chris Ramseyer, OU
Sponsor: Oklahoma Transportation Center
Amount: \$225,000.00 (personal credit \$150,000)
Duration: 06/01/09 to 05/31/12
9. "Interstate 35 Bridge Instrumentation Renaissance"
P.I.: David Baldwin, co-PI Chris Ramseyer,
Sponsor: Oklahoma Transportation Center
Amount: \$176,600.00 (personal credit \$35,320)
Duration: 9/15/10 to 9/14/12
10. "Cooperative Agreement with DoD ERDC on Magazine Safety"
P.I.: Kim Mish, Co-P.I.: Chris Ramseyer
Sponsor: U.S. Army Corps of Engineers
Amount: \$104,000.00 (personal credit \$15,600)
Duration: 09/01/08 to 08/30/10
11. "Work Program for FY05 OTC Appropriation Through Federal Highway Administration: Turner-Fairbank Research Center"
P.I.: Musharraf Zaman, Co-PI Chris Ramseyer
Sponsor: Federal Highway Administration (FHWA)
Amount: \$1,155,001 (personal credit 9% = \$103,950)
Duration: October 2006 to September 2008
12. "Development of Repair and Strengthening Methods for End Damage on AASHTO Girders"
P.I.: Chris Ramseyer Co-P.I.: Kyran Mish
Sponsor: Oklahoma Transportation Center (OTC)
Amount: \$50,000 (personal credit \$40,000)
Duration: January 2006 to September 2006
13. "The Bridges of the Future can be Created Here Today"
P.I.: Kyran Mish, Co-P.I. Chris Ramseyer
Sponsor: Oklahoma Transportation Center (OTC)
Amount: \$222,015 (personal credit 20% = \$44,403)

Duration: January 2006 to December 2007

14. "Mechanical Activation of Fly Ash for Concrete"
P.I.: Chris Ramseyer, Co-P.I.: Beth Brueggen
Sponsor: Oklahoma Transportation Center (OTC)
Amount: \$40,000 (\$24,000 personal credit)
Duration: May 2004 to December 2005

State Grants

1. "In-Stream Structures Integrity and Channel Stability Survey and Evaluation",
P.I.: Jason Vogal Co-P.I.: Chris Ramseyer,
Sponsor: University Transportation Center, Florida International University,
Amount: \$82,548 (personal credit \$9,080),
Duration: June 2018 to December 2020
2. "Performance of Existing ABC Projects, Outreach, and Center Operation",
P.I.: Musharraf Zaman, Co-P.I.: Chris Ramseyer,
Sponsor: Accelerated Bridge Construction, University Transportation Center, Florida International University,
Amount: \$22,000 (personal credit \$13,200),
Duration: March 2019 to September 2020
3. "Innovative Bridge Research Project – Self Consolidating Concrete for Bridge Beams",
P.I.: Chris Ramseyer, Co-P.I.: Thomas Kang,
Sponsor: Oklahoma Department of Transportation (ODOT), ,
Amount: \$125,000 (personal credit \$87,500),
Duration: April 2007 to September 2008
4. "Innovative Bridge Research Project – Sandwich Plate System for SH7 Keel Creek Bridge"
P.I.: Chris Ramseyer
Sponsor: Oklahoma Department of Transportation (ODOT)
Amount: \$100,000 (personal credit \$100,000)
Duration: April 2007 to September 2008
5. "Investigation of Cost Effective Truck Weight Enforcement"
P.I.: Chris Ramseyer, Co-P.I.: Kyran Mish
Sponsor: Oklahoma Department of Transportation (ODOT)
Amount: \$80,000 (personal credit \$64,000)
Duration: October 2006 to September 2007
6. "Optimizing Concrete Mix Designs to Produce Cost Effective Paving Mixes."
P.I.: Chris Ramseyer, Co-P.I. Kyran Mish
Sponsor: Oklahoma Department of Transportation (ODOT)
Amount: \$50,000 (personal credit \$45,000)
Duration: October 2006 to September 2007
7. "Monitor Existing and New Bonded Overlay Projects in the State of Oklahoma"
P.I.: Chris Ramseyer, Co-P.I.: Kyran Mish
Sponsor: Oklahoma Department of Transportation (ODOT)
Amount: \$80,000 (\$72,000 personal credit)
Duration: February 2006 to May 2007

8. "Stress Monitoring of the I-40 at Lake Eufaula Bridge"
P.I.: Chris Ramseyer
Sponsor: Oklahoma Department of Transportation (ODOT)
Amount: \$12,034 (\$9627.20 personal credit)
Duration: June 2005 to December 2005
9. "Innovative Bridge Research Project – Use of HPC for a Crack Free Bridge Deck"
P.I.: Chris Ramseyer
Sponsor: Oklahoma Department of Transportation (ODOT)
Amount: \$10,000 (personal credit \$10,000)
Duration: April 2005 to September 2005
10. "Creation of an Oklahoma Department of Transportation Specification for Patching or Overlay of Bridge Decks"
P.I.: Chris Ramseyer
Sponsor: Oklahoma Department of Transportation (ODOT)
Amount: \$285,000 total (personal credit \$285,000)
Duration: October 2004 to September 2008
11. "Investigation into the use of Portland Cement Concrete with Fiber Additives for Bridge Decks in the State of Oklahoma"
P.I.: Chris Ramseyer
Sponsor: Oklahoma Department of Transportation (ODOT)
Amount: \$49,300 (personal credit \$49,300)
Duration: September 2003 to October 2004.
12. "Investigation of Patching Materials for Portland Cement Concrete Pavements in the State of Oklahoma"
P.I.: Chris Ramseyer
Sponsor: Oklahoma Department of Transportation (ODOT)
Amount: \$38,750 (personal credit \$38,750)
Duration: September 2003 to October 2004.
13. "Investigation of Methods to Reduce or Eliminate End Region Corrosion of Pre-Stressed Concrete Bridge Girders"
P.I.: Chris Ramseyer
Sponsor: Oklahoma Department of Transportation (ODOT)
Amount: \$31,225 (personal credit \$31,225)
Duration: September 2003 to October 2004

Industry-Sponsored Research

1. "APA Flexible Sheathing Shear Wall Tests"
P.I.: Chris Ramseyer co-P.I.: Shideh Shadravan
Sponsor: American Plywood Association, (APA)
Amount: \$20,000 (personal credit \$2,000)
Duration: 8/15/18 to 12/31/19
2. "Improved Residential Foundations Using Chemically PreStressing Concrete."
P.I.: Shideh Shadravan co-P.I.: Chris Ramseyer
Sponsor: CTS – Cement Manufacturing Corp
Amount: \$5,000 (personal credit \$500)
Duration: June 2018 to December 2019

3. "Monotonic and dynamic Lateral Load Tests for sheathing systems"
P.I.: Shideh Shadravan co-P.I.: Chris Ramseyer
Sponsor: American Plywood Association, (APA)
Amount: \$18,000 (personal credit \$1,800)
Duration: 9/1/17 to 12/31/17
4. "Lateral Load Tests for Tornado Resistance"
P.I.: Shideh Shadravan co-P.I.: Chris Ramseyer
Sponsor: IBHS
Amount: \$59,000 (personal credit \$8,850)
Duration: 7/28/16 to 7/28/17
5. "Continuously Reinforced Concrete Pavement Study Using RAPID SET and Portland Cement"
P.I.: Chris Ramseyer
Sponsor: CTS – Cement Manufacturing Corp
Amount: \$37,000
Duration: November 2015 to October 2016
6. "Curl and Shrinkage of Concrete Slabs on Grade."
P.I.: Chris Ramseyer
Sponsor: CTS – Cement Manufacturing Corp
Amount: \$119,666 (personal credit \$119,666)
Duration: August 2007 to September 2008
7. "Bridge Overlay Study Using Rapid Set Latex Modified - LOP Modified Cement"
P.I.: Chris Ramseyer
Sponsor: CTS – Cement Manufacturing Corp
Amount: \$75,000 (personal credit \$75,000)
Duration: August 2006 to September 2008
8. "Axial, Bending and Pressure Testing of Large Pipe Connections"
P.I.: Chris Ramseyer
Sponsor: Franks Casing Crew
Amount: \$70,520 (\$56,416 personal credit)
Duration: August 2005 to August 2006
9. "Bending Capacity of Cold Formed Steel Purlins with an Innovative Bracing System Using the Base Test Method"
P.I.: Chris Ramseyer
Sponsor: Star Building Systems
Amount: \$10,008 (\$8006.40 personal credit)
Duration: August 2005 to August 2006
10. "Bridge Overlay Study Using Rapid Set Latex Modified Cement"
P.I.: Chris Ramseyer
Sponsor: CTS – Cement Manufacturing Corp
Amount: \$37,500 (personal credit \$37,500)
Duration: July 2005 to August 2006
11. "Cold formed Zee Purlin Capacity Study with Interaction of Web Stiffeners"
P.I.: Chris Ramseyer
Sponsor: Star Building Systems
Amount: \$7,850 (personal credit \$7,850)
Duration: June 2005 to December 2005

12. "Improved Blended Cement with Large Fly Ash Replacement"
P.I.: Chris Ramseyer, Co-P.I.: Beth Brueggen
Sponsor: LaFarge North America Inc.
Amount: \$21,000 (\$19,950 personal credit)
Duration: April 2005 to September 2005
13. "Stress Monitoring of Bridge Girders While Bridge Jacking"
P.I.: Chris Ramseyer, Co-P.I.: Kyran Mish
Sponsor: Duit Construction and Muskogee Bridge Company
Amount: \$3,100 (\$2,325 personal credit)
Duration: February 2005 to September 2005
14. "Analytical and Experimental Testing of Press Formed Purlin Anchorage Clips"
P.I.: Chris Ramseyer
Sponsor: Star Building Systems
Amount: \$4,250 (personal credit \$4,250)
Duration: November 2003 to May 2004
15. "Cold Formed Steel Joist Buckling Capacity Testing"
P.I.: Chris Ramseyer
Sponsor: Star Building Systems
Amount: \$4,461 (personal credit \$4,461)
Duration: October 2002 to August 2003
16. "Inelastic Capacity of the Bearing Seat, End Panel Diagonal, and End Panel Chord for Cold Form Steel Joists"
P.I.: Chris Ramseyer
Sponsor: Star Building Systems
Amount: \$23,000 (personal credit \$23,000)
Duration: June 2001 to December 2003

University Grants

1. "XACT Imaging of Concrete Structures"
P.I.: Liangzhong Xiang co-P.I.: Chris Ramseyer
Sponsor: OU Research Council
Amount: \$15,000 (personal credit \$7,500)
Duration: 4/28/16 to 4/28/17

Unfunded Research Projects

1. Evaluation of Integral Abutment Bridges in the state of Missouri
P.I.: Chris Ramseyer
Duration: August 2010 to December 2010
2. "Pier and Grade Beam Foundation Systems"
P.I.: Chris Ramseyer
Duration: 2007 to 2009
3. "Bending Capacity and Behavior of Large Concrete Filled Steel Tubes"
P.I.: Chris Ramseyer
Duration: December 2004 to December 2005 & 2010-2011

4. "Research on the Axial Load Capacity of Sheeted Cold-Formed, Large Z Sections"
P.I.: Chris Ramseyer
Duration: February 2002 to December 2003.
5. "Mechanical and Chemical Activation of Fly Ash Used in Portland Cement Concrete"
P. I.: Chris Ramseyer
Duration: August 2002 to August 2003

Direct Donations to Support Research

Chris Ramseyer Structural Engineering Scholarship Fund

| <u>Donors:</u> | <u>Value of Donation:</u> |
|-------------------------------|---------------------------------|
| CTS Cement Manufacturing Corp | \$75,184 - September 2010 |
| Manhattan Bridge Co. | \$1,000 - January 2011 |
| Manhattan Bridge Co. | \$11,000 - July 2011 |
| CTS Cement Manufacturing Corp | \$45,000 - September 2011 |
| Manhattan Bridge Co. | \$1,000 - February 2012 |
| CTS Cement Manufacturing Corp | \$100,000 - May 2012 |
| CTS Cement Manufacturing Corp | \$150,000 - August 2012 |
| CTS Cement Manufacturing Corp | \$200,000 - December 2012 |
| Manhattan Road & Bridge Co. | \$10,000 - February 2013 |
| CTS Cement Manufacturing Corp | \$75,000 - December 2013 |
| Anonymous | \$12,000 - July 2014 |
| CTS Cement Manufacturing Corp | \$50,000 - July 2015 |
| Anonymous | \$12,000 - July 2015 |
| CTS Cement Manufacturing Corp | \$50,000 - May 2016 |
| CTS Cement Manufacturing Corp | \$150,000 - October 2017 |
| CTS Cement Manufacturing Corp | \$250,000 - December 2017 |
| CTS Cement Manufacturing Corp | \$75,000 - August 2018 |
| CTS Cement Manufacturing Corp | \$65,000 - October 2018 |
| CTS Cement Manufacturing Corp | \$20,000 - July 2019 |
| CTS Cement Manufacturing Corp | \$10,000 - January 2020 |
| CTS Cement Manufacturing Corp | \$20,000 - February 2020 |
| CTS Cement Manufacturing Corp | <u>\$190,000</u> - October 2020 |
| Total Value of Donation: | \$1,572,184 |

In-Kind Donations Directly Related to Research

Donors: Star Building Systems, LaFarge North America, Holcim, Dolese, Capital Steel, W & W Steel, WR Grace, HKS Iron, CSC Inc., PVS Chemical, Xypex, Nycon Fibers, FiberMesh, Sika, CTS Cement Manufacturing Corp, Franks Casing Crew and 3M

Items: Cold formed steel specimens, portland cement, clinker, fly ash, large aggregate, sand, steel plate, large steel tubes and pipe, admixtures, steel fabrication, raw chemicals, latex additive, fibers, Calcium Sulphate Aluminate Cement, 30" diameter thick well casing, micro beads, (60) 3000 lb concrete blocks, (2) 10,000 lb steel beam **\$321,000**

Laboratory Equipment Donations

Donors: LaFarge North America, W and W Steel, and Chris Ramseyer Estimated Value: **\$27,900**

Items: Ball mill, data acquisition system and strong floor covers

Donor: Boeing Aircraft – March 2016. Estimated Value **\$55,000**

Items: (11) blade servers, blower fans, rack systems

Capital Improvement Donations

Donor: Ed and Linda Rice – December 2017 – October 2031, Estimated Value: **\$440,000**

Items: 80' x 120' (9480 sq ft) North End Expansion to Fears Structural Engineering Laboratory

Donor: Ed and Linda Rice – August 2008, Estimated Value: **\$50,000**

Items: 30' x 60' (1800 sq ft) Curling Lab Expansion to Fears Structural Engineering Laboratory

Donor: – Wilkins Construction, Rinker Materials, Dolese, Urban Contractors and Hearon Steel - August 2007 Estimated Value: **\$14,000**

Items: Culverts and concrete drives on the West side of Fears Structural Engineering Laboratory

Donor: Star Building Systems – August 2006, Estimated Value: **\$110,000**

Items: 30' x 144'-7" (4338 sq ft) West Bay Expansion to Fears Structural Engineering Laboratory

Donor: W & W Steel, Dolese and ODOT Estimated Value: **\$26,000**

December 2010 – (ongoing project) Items: 800 linear feet of solid metal panel fencing to enclose the field research site.

PUBLICATIONS AND PRESENTATIONS

Summary: *I have 2 books, 2 National Research Group Studies, 41 refereed journal articles published or in review (41 published, 0 accepted and 0 in review). I have 29 refereed conference proceedings published or in review (28 published, 0 accepted and 0 in review). I have issued 25 technical reports and 4 chapters or sections of refereed documents. I have made 8 International presentations, 59 National presentations and 102 invited presentations. I am also the co-inventor on 2 patents.*

Books

1. William L. Coulbourne, P.E.; David O. Prevatt, Ph.D., P.E.; T. Eric Stafford, P.E.; Christopher C. Ramseyer, Ph.D., P.E.; and John M. Joyce, P.E., "Moore, Oklahoma, Tornado of 2013, Performance of Schools and Critical Facilities", ASCE 2015 64 pages
2. ACI PRC-223-21; "Shrinkage-Compensating Concrete – Guide" Reported by ACI Committee 223, ACI 2021 31 pages editor and major author.

National Research Group Study

1. APA- The Engineered Wood Association: "Product Advisory: Performance of Flexible Structural Sheathing (Independent Evaluations of Published Design Values)", SP-1186A, Oct 2019, revised

Collaborated with Clemson University and APA- The Engineered Wood Association
http://www.texasinspector.com/files/SP-1186_Flexible_Sheathing-unlocked.pdf

2. APA- The Engineered Wood Association: “Product Advisory: Performance of Flexible Structural Sheathing (Independent Evaluations of Published Design Values)”, SP-1186, July 2018, Collaborated with Clemson University and APA- The Engineered Wood Association
http://www.texasinspector.com/files/SP-1186_Flexible_Sheathing-unlocked.pdf

Refereed Journal Articles

1. Sherry, S. and Ramseyer, C. “Assessment of Partial Joint Penetration Welds on Bolted End-plate Connections for Use in Intermediate Moment Frames”, *Engineering Structures*, Elsevier, On line June 2019
2. Shadravan, S. and Ramseyer, C. “Comparison of Structural Foam Sheathing and Oriented Strand Board Panels of Shear Walls Under Lateral Load”, *Advances in Computational Design*, Techno-Press, Vol. 4, No. 3 pp 251-272, ISSN: 2383-8477, March 2019
3. Murray, C., Floyd, R., and Ramseyer, C. “Using Calcium Sulfoaluminate Cement for Precast, Prestressed Concrete Beams”, *PCI Journal*, Precast/Prestressed Concrete Institute, February 2019
4. Shadravan, S. and Ramseyer, C. “Investigation of Design Values Computation of Wood Shear Walls Constructed with Structural Foam Sheathing”, *Advances in Computational Design*, Techno-Press, Vol. 4, No. 3 pp. 223-238, ISSN: 2383-8477, February 2019
5. Roswurm, S. J. and Ramseyer, C. “Developing Large Slab Airport Runways for the Next Century”, Transportation Research Record: Journal of the Transportation Review Board, TRB, Vol. 2673 issue 6, pp. 524-535, May 2019
6. Shadravan, S., Ramseyer, C. and Floyd, R., “Lateral Resistance of Strapped Wood Shear Walls”, *Journal of Structural Integrity and Maintenance*, Taylor and Francis, Vol. 4, No. 2 pp 65-75 May 2019
7. Shadravan, S., Emde, M. and Ramseyer, C. “Investigation of Torsional Bracing of Cold-Formed Steel Roofing Systems”, *Journal of Structural Integrity and Maintenance*, Taylor and Francis, Vol. 4, No. 1 pp 6-14 May 2019
8. Ramseyer, C., Holliday, L. and Sherry, S. “Lessons Learned from Two Elementary School Collapses During the May 20th, 2013 Moore Tornado”, *ASCE Journal of Performance of Constructed Facilities*, – November 2018 on line, Vol. 33, Issue 1 February 2019 - **Outstanding Journal Paper Award for 2019**
9. Shadravan, S. and Ramseyer, C. “Investigation of Wood Shear Walls Subjected to Lateral Loads”, *Structures*, Elsevier, Volume 16, Pages 82-96 Nov. 2018
10. Kang, H.-K., De Bruyn, K., Bescher, E., Hong, S. and Ramseyer, C., “Porosimetric Features of Calcium Sulfoaluminate and Portland Cement Pastes: Review of Testing Protocols and Analysis of Results”, *Journal of Structural Integrity and Maintenance*, Taylor and Francis, March 2018
11. Nghiem, A., Kang, H.-K., Minsun, L., Ramseyer, C. and Lee, C.-H., “Flexural Testing of Circular Concrete-Filled Tubes without Axial Forces”, *ACI Structural Journal*, March 2018, Vol. 115 No. 2 pp 511-524 with discussion January 2019, Vol. 116 No. 1 pp 277 - 278
12. Tang, S., Ramseyer, C., Samant, P. and Xiang, L., “X-ray-Induced Acoustic Tomography of Concrete Infrastructure”. *Applied Physics Letters* – February 2018

13. Ramseyer, C., Holliday, L. and Floyd, R., "Performance of Enhanced Residential Building Code Requirements During the March 25, 2015 Moore Tornado", *ASCE Journal of Performance of Constructed Facilities*, Submitted May 2016 Vol. 31, No. 5 October 2017
14. Tang, S., Nguyen, D. H., Sarafshani, A., Ramseyer, C., Zheng, B., Liu, H. and Xiang, L., "X-ray-Induced Acoustic Tomography with an Ultrasound Ring-Array". *Applied Physics Letters* – 110(10), 06-MAR-17(2017).
15. Roswurm, J. and Ramseyer, C. "Investigation into the influence of Sand Angularity on the Standard Test for Strand Bond", *PCI Journal*, Precast/Prestressed Concrete Institute, Vol. 62, No. 2, pp. 101-112 ISSN: 0887-9672, March-April 2017
16. Ramseyer, C., and Shadravan, S., "Bending Capacity of Cold Formed Z-Purlins Supporting a Standing Seam Roof System with Torsional Bracing", *Journal of Structural Integrity and Maintenance*, Taylor and Francis, Vol. 11, pp. 59-68, ISSN: 1976-0485, March 2017
17. De Bruyn, K., Bescher, E., Ramseyer, C., Hong, S. and Kang, H.-K., "Pore Structure of Calcium Sulfoaluminate Paste and Durability of Concrete in Freeze-Thaw Environment", *International Journal of Concrete Structures and Materials*, ISSN 1976-0485 December 2016
18. Hardre, P., Shehab, R., Ling, C., Herron, J., Nanny, M., Nollert, M., Refai, H., Ramseyer, C., Wollega, E., "Situating Teachers' Developmental Engineering Experiences in an Inquiry-based, Laboratory Learning Environment", *Journal of Teacher Development*, Taylor & Francis Vol. 21, No. 2, April 2017, on line Sept 2016
19. Bescher, E., Rice, E.K., Ramseyer, C. and Roswurm, S., "Sulfate Resistance of Calcium Sulphoaluminate Cement", *Journal of Structural Integrity and Maintenance*, Taylor and Francis, 1:3, pp. 131-139 ISSN: 2470-5314 September 2016
20. Lisa Holliday, Chris Ramseyer, Matthew Reyes, and Daniel Butko, "Building with Compressed Earth Block within the Building Code", *ASCE Journal of Architectural Engineering*, ISSN: 1076-0431 Vol. 22, Issue 3, September 2016
21. Ramseyer, C., Roswurm, S., "Behavior of Type K Shrinkage Compensating Concrete Under Various Forms of Mechanical Restraint", *ACI Special Publication 307; Shrinkage Compensating Concrete – Past, Present and Future*, ACI, March 2016 pp. 41-52 ISBN-13: 978-1-942727-70-5
22. Shadravan, S., Ramseyer, C., and Kang, T., "Dimensional Stability of Concrete Slabs-on Ground", *ACI Special Publication 307; Shrinkage Compensating Concrete – Past, Present and Future*, ACI, March 2016 pp. 53-65 ISBN-13: 978-1-942727-70-5
23. McLean, E., Ramseyer, C., Roswurm, S., "600 Crack-Free Bridges Using Shrinkage Compensating Concrete", *ACI Special Publication 307; Shrinkage Compensating Concrete – Past, Present and Future*, ACI, March 2016 pp. 85-100 ISBN-13: 978-1-942727-70-5
24. Ramseyer, C., Renevier, K., "Behavior of Shrinkage Compensating Concrete in an Unrestrained and Restrained Environment", *ACI Special Publication 307; Shrinkage Compensating Concrete – Past, Present and Future*, ACI, March 2016 pp. 101-112 ISBN-13: 978-1-942727-70-5
25. Shadravan, S., Ramseyer, C., and Kang, T., "A Long Term Restrained Shrinkage Study of Concrete Slabs on Ground", *Engineering Structures*, Elsevier. Nov. 2015 pp. 258-265

26. Ramseyer, C., Holliday, L. and Floyd, R., "Enhanced Residential Building Code for Tornado Safety", *ASCE Journal of Performance of Constructed Facilities*, DOI: 10.1061/(ASCE)CF.1943-5509.0000832. October 20, 2015
27. Kang, T.H.-K, Biggs, K., and Ramseyer, C., "Buckling Modes of Cold-Formed Steel Columns", *International Journal of Engineering and Technology*, Vol. 5, No. 4, Aug. 2013, pp. 447- 451.
28. Hardre, P., Shehab, R., Ling, C., Herron, J., Nanny, M., Nollert, M., Refai, H., Ramseyer, C., Wollega, E., "Designing and Evaluating a K-12 STEM Teacher Learning Opportunity in the Research University", *Journal of Teacher Education - Evaluation and Program Planning*, 43C (2014), 73-82. *Online First* 12/2013; DOI: 10.1016/j.evalprogplan.2013.11.002
29. Hardre, P., Ling, C., Shehab, R., Nanny, M., Nollert, M., Refai, H., Ramseyer, C., Herron, J., Wollega, E., "Teachers in an Interdisciplinary Learning Community: Engaging, Integrating and Strengthening K-12 Education", *Journal of Teacher Education*, American Association of Colleges for Teacher Education. Vol. 64, No. 5, October 2013. Pp. 410-425 DOI: 10.1177/0022487113496640
30. Piyawat, K., Ramseyer, C., and Kang, T., "Development of an Axial Load Capacity Equation for Doubly Symmetric Built-Up Cold Formed Sections", *ASCE Journal of Structural Engineering*, Vol. 139, Issue 12 December 2013
31. Ramseyer, C., and Kang, T., "Development fo Post-Damage Repair Methods for End Region of Prestressed Concrete Girders", *International Journal of Concrete Structures and Materials*, InderScience Publishers, Vol. 6, No. 3, September 2012, ISSN 1976-0485 pp. 199-207
32. Freyne, S., Ramseyer, C., and Giebler, J., "High Performance Concrete Designed to Enhance Durability of Bridge Decks: An Oklahoma Experience", *ASCE Journal of Materials in Civil Engineering*, Vol. 24, No. 7, July 2012. Pp. 933-936 ISSN 0899-1561
33. Piyawat, K., Ramseyer, C., and Kang, T., "Nonlinear Buckling of Built-Up Cold-Formed Sections", *International Journal of Theoretical and Applied Multiscale Mechanics*, InderScience Publishers Vol. 2, No. 2, November 2011. Pp. 146-164
34. Ramseyer, C., Vallens, K., Rice, E.K., and Bescher, E., "Stability of Calcium Sulfoaluminate cements in Highly Sulfated Environments", *Journal of Cement and Concrete Composites*, Elsevier, 2011
35. Kim, W., Piyawat, K., Ramseyer, C., and Kang, T., "Experimental and Numerical Simulations of Prestressed Self-Consolidating-Concrete Structures Subjected to Non-Linear Deformations", *International Journal of Theoretical and Applied Multiscale Mechanics*, InderScience Publishers, Vol. 1, No. 4 December 2010. Pp. 319-338
36. Probst, A., Kang, T., Ramseyer, C. and Kim, U., "Composite Flexural Behavior of Full-Scale Concrete Filled Tubes without Axial Loads" *ASCE Journal of Structural Engineering*, Vol. 136, No. 11, pp. 1401-1412, November 2010
37. Brueggen, B., Kang, T. and Ramseyer, C., "Experiments and SEM Analyses of Ground Fly Ash in Concrete " *International Journal of Concrete Structures and Materials*, InderScience Publishers, Vol. 4, No. 1, pp. 51-54, June 2010, ISSN 1976-0485
38. Huang, Y., Kang, T., Ramseyer, C., and Rha, C., "Background to Multi-Scale Modeling of Unbonded Post-Tensioned Concrete Structures", *International Journal of Theoretical and*

Applied Multiscale Mechanics, InterScience Publishers, January 2010, Vol. 1, Issue 3 pp 219 – 235 Note: Selected as the “must-read” paper by the editor.

39. Whittle, J. and Ramseyer, C.C., " Buckling Capacities of Axially Loaded, Cold-Formed, Built-Up C-Channels" *Thin-Walled Structures*, Elsevier Vol. 47 February 2009, pp. 190-201, ISSN 0263-8231
40. Ramseyer, C., Chancellor, B., and Kang, T., "Economic and Fast-track Rehabilitation of Concrete Pavements and Bridge Decks" *International Journal of Concrete Structures and Materials*, InderScience Publishers, Vol. 2, No. 2, pp. 107-113 December 2008, ISSN 1976-0485
41. Myers, D., Kang, T. and Ramseyer, C., "Early-Age Properties of Polymer Fiber-Reinforced Concrete" *International Journal of Concrete Structures and Materials*, InderScience Publishers, Vol. 2, No. 1, pp. 9-14, June 2008, ISSN 1976-0485

Refereed Conference Proceedings

1. Shadravan, S., Ramseyer, C., and Shadravan, B., “Performance of OSB and SFS Shear Walls in Residential Building” 6th Residential Building Design & Construction Conference, May 2022
2. Shadravan, S. and Ramseyer, C., “Evaluating Structural Sheathing Capacity Subjected to Lateral Loads” AEI, Accepted August 2018.
3. Bescher, E., Kim, J., Ramseyer, C. and Vallens, J.K., “Low Carbon Footprint Pavement: History of Use, Performance and New Opportunities for Calcium Sulfoaluminate Pavement” 13th International Symposium on Concrete Roads, Berlin, Germany June 2018.
4. Shadravan, S. and Ramseyer, C., “Torsional Bracing of Cold-Formed Roof Systems”, 2017 AEI Convention, Oklahoma City, Oklahoma, April 2017.
5. Floyd, R. and Ramseyer, C., “Behavior of Precast, Prestressed Calcium SulfoAluminate Cement Concrete Beams”, 2016 PCI Convention and National Bridge Conference Proceedings. Mar. 2016
6. Seek, M., Ramseyer, C. and Kaplan, I., “A Combined Direct Analysis and Direct Strength Approach to Predict the Flexural Strength of Z-Purlins with Paired Torsion Braces” International Specialty Conference on Cold-Formed Steel Structures 2016, Missouri University of Science and Technology.
7. Holliday, L., and Ramseyer, C. “Reinforcing Compressed Earth Blocks with Geo-Fabric”, *Earth USA 2015 8th International Earthbuilding Conference*, Santa Fe, New Mexico, October 2015.
8. Dyer, J., Ramseyer, C., Duclaux, K., Sluss, J., Pulat, P., "A Semester-Long Study Abroad Model for Engineering Students - The Unified Project Approach", *Frontiers in Education (FIE)*, American Society of Engineering Educators, Conference, El Paso Texas, October 24, 2015.
9. Ramseyer, C., Floyd, R., Holliday, L. & Roswurm, S., “Influence of Lateral Load Bracing Systems on Damage and Survivability of Residential Structures Impacted by the Moore Oklahoma Tornado of May 20th, 2013”, *ASCE-SEI Structures Congress*, Boston, Massachusetts, April 2014.
10. Butko, D., Holliday, L., Reyes, M., Ramseyer, C. & Hatami, K., “Returning to Earth: analyzing and designing earthen structures for sustainable design”, *ACSA (Association of Collegiate Schools of Architecture) Fall Conference*, Fort Lauderdale, Florida, October 2013.

11. Holliday, L., Ramseyer, C. & Frame, M., "Shear Strength of Compressed Earth Block Walls", *Earth USA 2013 7th International Earthbuilding*, Santa Fe, New Mexico, October 2013.
12. Kang, T.H.-K., Biggs, K., and Ramseyer, C., "Buckling Modes of Cold-Formed Steel Columns," Proceedings, The 2nd International Conference on Civil Engineering and Materials, Hong Kong, July 2013.
13. Ramseyer, C. and Bescher, E., "Performance of Concrete Rehabilitation Using Rapid Setting Calcium Sulfo-Aluminate Cement at the Seattle-Tacoma Airport" 93rd Annual Meeting of the Transportation Research Board, Washington DC January 2013.
14. Bescher, E., Stremfel, J, Ramseyer, C. and Rice, E.K., "The role of calcium sulfoaluminate in concrete sustainability", *Twelfth International Conference on Recent Advances in Concrete Technology and Sustainability Issues*, Prague, Czech Republic, Oct. 2012.
15. Kang, T.H.-K., Piyawat, K., and Ramseyer, C., "Design Buckling Strength Curve for Built-Up Cold-Formed Sections," Proceedings, The 6th International Symposium on Steel Structures, Seoul, Korea, Nov. 2011.
16. Piyawat, K., Kim, W., Ramseyer, C. and Kang, T.H.-K., "ANSYS & OpenSees Modeling of Pre-Tensioned Prestressed Concrete Beams," Proceedings, Mini Symposium–Computational Modeling of Prestressed Concrete Structures, *The 2011 International Conference on Computational Technologies in Concrete Structures*, Seoul, Korea, Sept. 2011.
17. Holliday, L., Ramseyer, C.C. & Grant, H., "Masonry Block Construction in Haiti", *Wessex Institute of Technology, 8th International Conference on Earthquake Resistant Engineering Structures*, Chianciano Terme, Italy, September 2011.
18. Ramseyer, C., McLean, E., Davis, C., Gummersheim B., Trautman, B., Martens, P., Amos, D., Schmidt, I., Diaz, L. and Sharp, R., "Experience with Rapid Setting, Low Permeability Bridge Overlays in the St. Louis Area" TRB, January 2011.
19. Ramseyer, C.C. & Perez, V., "Highway Panel Replacement – The California Experience", *Concrete Pavement Technology Program, Federal Highway Administration*, Proceedings of the International Conference on Optimizing Paving Concrete Mixtures & Accelerated Concrete Pavement Construction and Rehabilitation, St. Louis, Missouri April 2009.
20. Ramseyer, C.C., "Camp Concrete – Growth of a Graduate Program" *American Society for Engineering Education*, Annual Conference and Exposition, Pittsburgh, Pennsylvania June 2008.
21. Ramseyer, C.C. and Chancellor, B., "Economical Rehabilitation of Concrete Pavements", *Concrete Pavement Technology Program, Federal Highway Administration*, International Conference on Optimizing Paving Concrete Mixtures and Accelerated Concrete Pavement Construction and Rehabilitation, Atlanta, Georgia November 2007.
22. Ramseyer, C.C., "An experiment in Undergraduate Research" *American Society for Engineering Education*, Annual Conference and Exposition, Honolulu, Hawaii June 2007.
23. Carmen Diaz & Ramseyer, C.C., "Dynamic Testing of Rammed Earth Scale Models", *The Adobe Association of the SouthWest*, AdobeUSA BiAnnual Conference, El Rito New Mexico, May 2007.

24. Shadravan, S. and Ramseyer, C.C., "Bending Capacity of Cold Formed Steel Purlins with Torsional Bracing Using the Base Test Method ", Annual Stability Conference, *Structural Stability Research Council*, New Orleans, Louisiana, April 2007.
 - NOTE: This paper is cited in the 2007 AISI North American Specification for the Design of Cold-Formed Steel Structural Member in section D3 Lateral Bracing of the Specification and Commentary, which I helped author.
25. Brueggen, B.L. and Ramseyer, C.C., "Finite Element Modeling of Cold-Formed Steel Joist Systems", Annual Stability Conference, *Structural Stability Research Council*, Montreal, Quebec, April 2005.
26. Thottunkal, V.J. and Ramseyer, C.C., "Axial Capacity of Deep Z Sections", Annual Stability Conference, *Structural Stability Research Council*, Montreal, Quebec, April 2005.
27. Brueggen, B.L. and Ramseyer, C.C., "Capacity of Built-Up, Cold-Formed Steel Axial Compression Members", Annual Stability Conference, *Structural Stability Research Council*, Montreal, Quebec, April 2005.
28. Ramseyer, C.C., and Brueggen, B. L., "Camp Concrete – An experiment in Undergraduate Research" *American Society for Engineering Education*, Annual Meeting of the Midwest Section, Fayetteville, Arkansas, September 2005.
29. Ramseyer, C.C., Russell, B.W., and Bush, T.D., "Investigation of Very Early Strength Portland Cement Concrete Suitable for Patching Rigid Pavements", Transportation Research Board Compilation of Practical Papers, Washington D.C. January 1999.

Technical Reports

1. Andrew Graettinger, Chris Ramseyer, Seamus Feyne, David Prevatt, Laura Myers, Thang Dao, Royce Floyd, Lisa Holliday, Duzgun Agdas, Fred Haan, Jim Richardson, Rakesh Gupta, Robert Emerson and Christine Alfano, *Tornado Damage Assessment in the aftermath of the May 20th, 2013 Moore, Oklahoma Tornado*, Final Report to NSF, March 2014, 133 pp.
2. Baldwin, J., Ramseyer, C.C., Runolfsson, T., and Kroll, A., *Interstate-35 Bridge Instrumentation Renaissance*, ODOT September 2012
3. Ramseyer, C.C., Baker, J., Roswurm, S., *Unrestrained and Restrained Vibrating Wire Strain Gauge Shrinkage/Expansion Testing*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, December 2012, 19 pp.
4. Ramseyer, C.C., Shadravan, S., Gorman, P., and Santamaria, C.R., *Dimensional Stability of Concrete Slabs on Grade*, Research Report, OkTC Oklahoma Transportation Center, Midwest City, OK, December 2012, 76 pp.
5. Ramseyer, C.C. and Giebler, J., *Use of High Performance Concrete in Oklahoma Bridge Decks*, Final Report – FHWA-OK-10-03 ODOT IBR Item Number 105N (107) IB# 20296(05), March 2010, 333 pp.
6. Ramseyer, C.C. and Gastgeb, M., *Creation of an ODOT Specification for Patching or Overlay of Bridge Decks, Volume I*, Final Report – FHWA-OK-08-09 ODOT SPR Item Number 2184, March 2009, 98 pp.

7. Ramseyer, C.C. and Myers, G., *Creation of an ODOT Specification for Patching or Overlay of Bridge Decks, Volume II*, Final Report – FHWA-OK-08-09 ODOT SPR Item Number 2184, March 2009, 200 pp.
8. Ramseyer, C.C. and Kiamanesh, R., *Optimizing Concrete Mix Designs to Produce Cost Effective Paving Mixes*, Final Report – FHWA-OK-08-11 ODOT SPR Item Number 2199, March 2009, 122 pp.
9. Ramseyer, C.C., *Report on Historical Rapid Set Overlays in Tulsa*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, September 2007, 29 pp.
10. Ramseyer, C.C., *Report on Development of Repair and Strengthening Methods for End Damage on AASHTO Girders*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, December 2006, 28 pp.
11. Gastgeb, M. Cortney, W., and Ramseyer, C.C., *Report on Curing Effects on Rapid Set® Latex Modified Cement Bridge Deck Overlays*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, August 2006, 9 pp.
12. Giebler, J., and Ramseyer, C.C., *Report on the Use of High Performance Concrete in Oklahoma Bridge Decks*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, July 2006, 324 pp.
13. Ramseyer, C.C., *Report on Stress Monitoring of the I-40 and Lake Eufaula Bridge*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, June 2006, 22 pp.
14. Kiamanish, R., and Ramseyer, C.C., *Report on Improved Blended Cement with Large Fly Ash Replacement*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, September 2006, 102 pp.
15. Kiamanish, R., and Ramseyer, C.C., *Report on Mechanical Activation of Fly Ash for Concrete*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, September 2006, 68 pp.
16. Kao, J.T. and Ramseyer, C.C., *Report on Portland Cement Concrete with Fiber Additives for Bridge Decks in Oklahoma*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, January 2006, 98 pp.
17. Myers, D. and Ramseyer, C.C., *Report on Fiber-Reinforced Concrete and Bridge Deck Cracking*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, January 2006, 106 pp.
18. Thottunkal, V.J. and Ramseyer, C.C., *Report on Axial Load Capacity of Cold-Formed Z Sections*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, October 2004, 73 pp.
19. Chancellor, B. and Ramseyer, C.C., *Report on Very Early Strength Concrete for Patching*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, September 2004, 114 pp.

20. Brueggen, B.L. and Ramseyer, C.C., *Inelastic Finite Element Modeling of Cold Formed Steel Joists*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, September 2004, 155 pp.
21. Brueggen, B.L. and Ramseyer, C.C., *Report on Press-Formed Purlin Clip Anchorage Testing*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, August 2004, 111 pp.
22. Brueggen, B.L. and Ramseyer, C.C., *Report on Cold Formed Steel Joist Member Buckling Capacity Testing*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, August 2003, 25 pp.
23. Brueggen, B.L. and Ramseyer, C.C., *Report on Inelastic Finite Element Modeling of Cold Formed Steel Joists*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, January 2003, 17 pp.
24. Brueggen, B.L. and Ramseyer, C.C., *Report on Cold Formed Steel Joist Weld Connection and End Region Testing*, Research Report, Fears Structural Engineering Laboratory, School of Civil Engineering and Environmental Science, University of Oklahoma, June 2002, 32 pp.
25. Russell, B.W., Bush, T.D., Mooney M., and Ramseyer, C.C., *Development of Statewide Portland Cement Patching Products and Procedures - Interim Report*, Presented to ODOT, June 1997

Other Peer-Reviewed Publications (1 Building Code and 3 Chapters/Sections Published)

1. Chris Ramseyer and Lisa Holliday, *Moore Residential Building Code*, 2014 Revisions - residential construction to withstand an EF-2 tornado
2. Ramseyer, C.C., & Myers, D., Section 505, “Overlay of Concrete Bridge Decks” and Section 513, “Repair of Concrete Bridge Decks”, ODOT, *2009 Standard Specifications for Highway Construction*. Edited by the Specification Section 500 Committee – of which I was a member, November 2009
3. Ramseyer, C.C., Section 701.12 “Very Early Strength Type I Concrete for Bridge Deck Patching”, 701.13 “Early Strength Type III Concrete for Bridge Deck Patching” & 701.14 “Rapid-Setting Latex-Modified Concrete for Bridge Deck Patching”, Oklahoma Department of Transportation, *2009 Standard Specifications for Highway Construction*. Edited by the Specification Section 700 Committee, November 2009
4. Watson, D. & Ramseyer, C., *Section D 6.3.2 Alternate Lateral and Stability Bracing for Purlin Roof Systems*, AISI Standard, North American Specification for the Design of Cold-Formed Steel Structural Members, 2007 Edition

International Presentations (Presenting Author is **Bold)**

1. **Bescher, E.**, Kim, J., Ramseyer, C. and Vallens, J.K., “Low Carbon Footprint Pavement: History of Use, Performance and New Opportunities for Calcium Sulfoaluminate Pavement” 13th International Symposium on Concrete Roads, Berlin, Germany June 2018
2. **Ramseyer, C.**, “Improving Continuous Reinforced Concrete Pavement – Building for the next century”, *Grupo Cementos de Chihuahua, S.A.B. de C.V. Summit*, Chihuahua, Mexico, January 2017

3. **Ramseyer, C.**, “Field Testing using Vibrating Wire Strain Gauges – A new look at an old problem”, *Grupo Cementos de Chihuahua, S.A.B. de C.V. Summit*, Chihuahua, Mexico, January 2017
4. **Kang, T.H.-K.**, Biggs, K., and Ramseyer, C., “Buckling Modes of Cold-Formed Steel Columns,” Proceedings, The 2nd International Conference on Civil Engineering and Materials, Hong Kong, July 2013
5. **Bescher, E.**, Stremfel, J, Ramseyer, C. and Rice, E.K., “The role of calcium sulfoaluminate in concrete sustainability”, *Twelfth International Conference on Recent Advances in Concrete Technology and Sustainability Issues*, Prague, Czech Republic, Oct. 2012
6. **Kang, T.H.-K.**, Piyawat, K., and Ramseyer, C., “Design Buckling Strength Curve for Built-Up Cold-Formed Sections,” The *6th International Symposium on Steel Structures*, The Korean Society of Steel Construction and the International Journal of Steel Structures, Seoul, Korea, Nov. 2011
7. Holliday, L., **Ramseyer, C.C.** & Grant, H., “Masonry Block Construction in Haiti”, *Wessex Institute of Technology, 8th International Conference on Earthquake Resistant Engineering Structures*, Chianciano Terme, Italy, September 2011
8. Piyawat, K., Kim, W., Ramseyer, C. and **Kang, T.H.**, “ANSYS & OpenSees Modeling of Pre-Tensioned Prestressed Concrete Beams,” The *2011 International Conference on Computational Technologies in Concrete Structures*, Korea Advanced Institute of Science and Technology, Seoul, Korea, Sept. 2011

National Presentations (Presenting Author is **Bold**)

1. **Ramseyer, C.** “Use of Shrinkage-Compensating Concrete”, ACI Fall 2021 Convention, ACI 301 technical committee, October 24, 2022
2. Floyd, R., **Ramseyer, C.**, **Bescher, E.**, and Bissonnette, B. “ACI On-Demand Course; Session on Shrinkage-Compensating Concrete”, July 2022
3. **Ramseyer, C.** “Crack-Free Bridge Decks and Water Tanks” ACI Fall 2021 Convention, Session on Shrinkage-Compensating Concrete Design and Research in Memory of Edward K. Rice, October 17-20, 2021.
4. Ramseyer, C., **Stephen Roswurm** “Mechanical Restraint of Type K Shrinkage-Compensating Cement” ACI Fall 2021 Convention, Session on Shrinkage-Compensating Concrete Design and Research in Memory of Edward K. Rice, October 17-20, 2021.
5. **Ramseyer, C.** “A Life Well Lived,” ACI Fall 2021 Convention, Session on Shrinkage-Compensating Concrete Design and Research in Memory of Edward K. Rice, October 17-20, 2021.
6. **Murray, C. D.**, Floyd, R., and Ramseyer, C. “Performance of Precast Prestressed Beams Cast with Calcium Sulfoaluminate-Belite Cement Concrete,” ACI Fall 2018 Convention, Las Vegas, NV, October 14-18, 2018.
7. **Ramseyer, C.**, “High Wind / Wall Bracing”, *APA Summit*, Grapevine, Texas, May 2018
8. **Giammanco, T.M.**, and **Ramseyer, C.**, “The Tie That Binds: Strengthen Your Home Against Strong Winds”, *Insurance Institute for Business & Home Safety, National Tornado Summit*, Oklahoma City, Oklahoma, Feb 2018

9. **Ramseyer, C.**, “Assessment of the EF-5 Moore Oklahoma Tornado of May 20th, 2013 on Non Residential Structures” Resilience of the Integrated Building: A Community Focus, Architectural Engineering Institute (AEI) National Conference, Oklahoma City, Oklahoma, April 2017
10. **Ramseyer, C.**, “Residential Foundations on Shrinkable Clays” Resilience of the Integrated Building: A Community Focus, Architectural Engineering Institute (AEI) National Conference, Oklahoma City, Oklahoma, April 2017
11. **Ramseyer, C.**, “Setting the Standard - Creation of the Moore Building Code for Tornado Resistance” Resilience of the Integrated Building: A Community Focus, Architectural Engineering Institute (AEI) National Conference, Oklahoma City, Oklahoma, April 2017
12. **Ramseyer, C.**, “Type K Engineered Expansive Cements”, *Illinois Transportation and Highway Engineering (T.H.E.) Conference*, University of Illinois at Urbana Champaign, Illinois, Feb. 2017
13. **Ramseyer, C.**, “Building Stronger Safer Homes – How Moore did it”, *The Need for Stronger, Safer Buildings in the Heartland*, Edmond, Oklahoma, Aug 2016
14. **Ramseyer, C.**, “Tornado Resistant (Residential) Construction Webinar”, *APA- Webinar*, Norman, Oklahoma, July 2016
15. **Ramseyer, C.**, “Tear Down or Repair”, *Insurance Institute for Business & Home Safety, National Tornado Summit*, Oklahoma City, Oklahoma, March 2016
16. **Ramseyer, C.**, “Setting the Standard – New Building Codes for Tornado Resistance”, *Insurance Institute for Business & Home Safety, National Tornado Summit*, Oklahoma City, Oklahoma, March 2016
17. **Floyd, R.** and Ramseyer, C., “Behavior of Precast, Prestressed Calcium SulfoAluminate Cement Concrete Beams”, 2016 PCI Convention and National Bridge Conference, Nashville Tennessee, March 2016
18. **Ramseyer, C.**, “An Assessment of School and Commercial Facility Performance Due to the May 20th, 2013, Moore, Oklahoma Tornado”, *Insurance Institute for Business & Home Safety, National Tornado Summit*, Oklahoma City, Oklahoma, February 2015
19. **Ramseyer, C.**, “The Development of the City of Moore – New Building Code for Tornado Resistance”, *Insurance Institute for Business & Home Safety, National Tornado Summit*, Oklahoma City, Oklahoma, February 2015
20. **Ramseyer, C.**, “Forensic Evaluation of Tornado Damaged Structures at Moore, Oklahoma”, *ASCE Structural Engineering Conference*, Ames, Iowa, November 2014
21. **Floyd, R.**, Ramseyer, C., “Behavior of Precast, Prestressed Calcium Sulfoaluminate Cement Concrete Beams”, *American Concrete Institute, Annual Fall Convention, Research In Progress Technical Session*, Washington D.C., October 2014
22. **Ramseyer, C.**, “Influence of Lateral Load Bracing Systems on Damage and Survivability of Residential Structures Impacted by the Moore Oklahoma Tornado of May 20th, 2013”, *ASCE-SEI Structures Congress*, Boston Massachusetts, April 2014

23. **Ramseyer, C.**, “Knowing Your Audience - Adjusting your Presentation on the Fly, ”, *American Concrete Institute, Annual Spring Convention*, S802 Speakers Development Breakfast, Reno, Nevada, March 2014
24. **Ramseyer, C.**, “Rockford Airport – Shrinkage Compensated Concrete Taxi runway”, *American Concrete Institute, Annual Spring Convention*, 223 committee meeting, Reno, Nevada, March 2014
25. **Ramseyer, C.**, “Performance of Shrinkage Compensating Concrete Slabs on Ground with Varying Reinforcement Ratio’s”, *American Concrete Institute, Annual Fall Convention*, 223 committee meeting, Phoenix, Arizona, October 2013
26. **Butko, D.**, Holliday, L., Reyes, M., Ramseyer, C. & Hatami, K., “Returning to Earth: analyzing and designing earthen structures for sustainable design”, *ACSA (Association of Collegiate Schools of Architecture) Fall Conference*, Fort Lauderdale, Florida, October 2013
27. **Holliday, L.**, Ramseyer, C. & Frame, M., “Shear Strength of Compressed Earth Block Walls”, *Earth USA 2013 Biannual Conference*, Santa Fe, New Mexico, October 2013.
28. **Ramseyer, C.C.**, "Unrestrained and Restrained VWSG Shrinkage-Expansion Testing", *ASTM C09.68 Concrete Volume Change*, Indianapolis, Indiana, June 2013
29. **Roswurm, S.**, and Ramseyer, C. “Behavior of Type K Shrinkage-Compensating Concrete under Various Forms of Mechanical Restraint”, *American Concrete Institute, Annual Fall Convention, Shrinkage-Compensating Concrete Technical Session*, Toronto, Canada, October 2012
30. **Shadravan, S.**, and Ramseyer, C. “Dimensional Stability of Type K Concrete Slabs-on-Ground”, *American Concrete Institute, Annual Fall Convention, Shrinkage-Compensating Concrete Technical Session*, Toronto, Canada, October 2012
31. **Ramseyer, C.**, and Renevier, K. “The Use of Type K Shrinkage Compensating Concrete (SCC) in an Underground Water Tank”, *American Concrete Institute, Annual Fall Convention, Shrinkage-Compensating Concrete Technical Session*, Toronto, Canada, October 2012
32. **Ramseyer, C.**, McLean, E., and Renevier, K. “Structural Stability of Shrinkage Compensating Concrete in a 6 Million Gallon Water Tank”, *American Concrete Institute, Annual Spring Convention*, 223 committee meeting, Dallas, Texas, March 2012
33. **Ramseyer, C.**, McLean, E., Renevier, K. and Rinde, B. “Shrinkage Compensating Concrete for Water Tanks”, *American Concrete Institute, Annual Fall Convention*, 223 committee meeting, Cincinnati, Ohio, October 2011
34. **Kang, T.H.-K.**, and Ramseyer, C, “Flexural Behavior of Circular Concrete-Filled Tubes with and without End Caps,” Presentation, ACI Committee 335, Composite and Hybrid Structures, ACI Spring 2011 Convention, Tampa, FL, Apr. 2011
35. **Ramseyer, C.**, McLean, E., Davis, C., Gummersheimer B., Trautman, B., Martens, P., Amos, D., Schmidt, I., Diaz, L. and Sharp, R., “Experience with Rapid Setting, Low Permeability Bridge Overlays in the St. Louis Area” TRB, Washington D.C., January 2011
36. **Ramseyer, C.C.**, Kang, T. & Probst, A., "Precast Concrete-Filled Tube Beams for Sustainable Construction", *American Concrete Institute, Annual Fall Convention*, Pittsburgh, Pennsylvania, October 2010

37. **Ramseyer, C.C.**, "Investigation of the Dimensional Stability of Concrete Slabs on Grade at the Advanced Concrete Research Laboratory", *American Concrete Institute, Annual Fall Convention*, New Orleans, Louisiana, November 2009
38. **Ramseyer, C.C.**, "CTS – Dimensional Stability of Concrete Slabs on Grade", *American Concrete Institute, Annual Fall Convention*, New Orleans, Louisiana, November 2009
39. **Ramseyer, C.C.**, Piyawat, K., "Numerical Buckling Analysis of Built-Up, Cold Formed Members", *American Iron and Steel Institute, Committee on Specification*, Charlotte, North Carolina, August 2009
40. **Ramseyer, C.C.** and Perez, V., "Highway Panel Replacement – CSA Concrete in California", *Concrete Pavement Technology Program, Federal Highway Administration*, National Conference on Preservation, Repair and Rehabilitation of Concrete Pavements, St Louis, Missouri April 2009
41. **Ramseyer, C.C.**, "Research of shrinkage compensating cements at the University of Oklahoma", *American Concrete Institute, Annual Fall Convention*, St. Louis, Missouri, November 2008
42. **Ramseyer, C.C.**, "Camp Concrete – Growth of a Graduate Program" *American Society for Engineering Education*, Annual Conference and Exposition, Pittsburgh, Pennsylvania June 2008
43. **Ramseyer, C.C.**, "Research at the University of Oklahoma on CSA Concrete", *American Concrete Institute, Annual Spring Convention*, Los Angeles, California, March 2008
44. **Ramseyer, C.C.**, "The Tulsa Experience with Concrete Overlays", *World of Concrete Technology for Construction*, CTS Mobile Mixer and Accelerated Concrete session, Los Vegas, Nevada, January 2008
45. **Ramseyer, C.C.** and Chancellor, B., "Economical Rehabilitation of Concrete Pavements", *Concrete Pavement Technology Program, Federal Highway Administration*, International Conference on Optimizing Paving Concrete Mixtures and Accelerated Concrete Pavement Construction and Rehabilitation, Atlanta, Georgia November 2007
46. **Ramseyer, C.C.**, "An Experiment in Undergraduate Research" *American Society for Engineering Education*, Annual Conference and Exposition, Honolulu, Hawaii June 2007
47. **Carmen Diaz & Ramseyer, C.C.**, "Dynamic Testing of Rammed Earth Scale Models", *The Adobe Association of the South West*, Adobe USA Bi-Annual Conference, El Rito New Mexico, May 2007
48. Shadravan, S., **Ramseyer, C.C.**, "Bending Capacity of Cold Formed Steel Purlins with Torsional Bracing Using The Base Test Method ", *Annual Stability Conference, Structural Stability Research Council*, New Orleans, Louisiana, April 2007
49. **Ramseyer, C.C.**, Kiamanish, R., "Mechanically Activated Fly Ash in Fresh and Hardened Concrete" *American Concrete Institute, Annual Fall Convention*, Denver, Colorado, November 2006
50. **Ramseyer, C.C.**, Freyne, S., Peters, W. Geibler, J., "First HPC Bridge Deck in Oklahoma" *American Concrete Institute, Annual Fall Convention*, Kansas City, Kansas, November 2005
51. **Ramseyer, C.C.**, and Brueggen, B. L., "Camp Concrete – An Experiment in Undergraduate Research" *American Society for Engineering Education*, Annual Meeting of the Midwest Section, Fayetteville, Arkansas, September 2005

52. **Ramseyer, C.C.**, "A Study of Shrinkage in Concrete from the Time of Casting" *American Concrete Institute, Annual Spring Convention*, New York, New York, April 2005
53. **Brueggen, B.L.** and Ramseyer, C.C., "Mechanical Activation of Fly Ash: Why it Works" *American Concrete Institute, Annual Spring Convention*, New York, New York, April 2005
54. **Chancellor, B.** and Ramseyer, C.C., "Investigation of Very Early Strength Concrete with Low Shrinkage Properties Suitable for Rigid Pavement Repair" *American Concrete Institute, Annual Spring Convention*, New York, New York, April 2005
55. **Brueggen, B.L.** and Ramseyer, C.C., "Finite Element Modeling of Cold-Formed Steel Joist Systems", *Structural Stability Research Council - Stability Conference at the North American Steel Construction Conference*, Montreal, Quebec, Canada, April 2005
56. **Thottunkal, V.J.** and Ramseyer, C.C., "Axial Capacity of Deep Z Sections", *Structural Stability Research Council - Stability Conference at the North American Steel Construction Conference*, Montreal, Quebec, Canada, April 2005
57. Brueggen, B.L. and **Ramseyer, C.C.**, "Capacity of Built-Up, Cold-Formed Steel Axial Compression Members", *Structural Stability Research Council - Stability Conference at the North American Steel Construction Conference*, Montreal, Quebec, Canada, April 2005
58. **Ramseyer, C.C.**, **Freyne, S.**, Russell, B.W., and Bush, T., "Enhancing Compressive Strength in HPC with a Corrosion Inhibiting Admixture Containing Calcium Nitrite", *American Concrete Institute, Annual Fall Convention*, Dallas Texas, October 2001
59. **Russell, B.W.**, and Ramseyer, C.C., "High Performance Concrete Products and Procedures for Repairing Bridge Decks and Rigid Pavements", *78th Annual Transportation Research Board Meeting*, Washington D.C., January 1999
60. **Ramseyer, C.C.**, and Russell, B.W., "High Performance Concrete Products and Procedures for Repairing Bridge Decks and Rigid Pavements", *Pre-Stressed Post-tensioned Concrete Institute, Annual Convention*, Atlanta Georgia, November 1998

Invited Presentations (Presenting Author is Bold)

1. **Ramseyer, C.C.**, "Residential Braced Walls", *Central Oklahoma Home Builders Association*, Oklahoma City, Oklahoma, August 2023
2. **Ramseyer, C.C.**, "Wood Frame "Roof" Construction for Oklahoma", *Ideal Homes – Builder Training*, Oklahoma, July 2023
3. **Ramseyer, C.C.**, "Design Principles for Oklahoma Foundations", *Ideal Homes – Builder Training*, Oklahoma, July 2023
4. **Ramseyer, C.C.**, "William LeMessurier and the CitiCorp Center; A case study in engineering and ethics", *Wallace Design Collective*, Oklahoma, August 2022
5. **Ramseyer, C.C.**, "Shrinkage Compensating Concrete – Why are you accepting cracked concrete", *Scholer Peterson Concrete Conference*, Kansas State University, Topeka, Kansas, February 2019
6. **Ramseyer, C.C.**, "High Wind Issues", *Oklahoma Better Building Summit, Oklahoma State Home Builders Association*, Oklahoma City, Oklahoma, September 2017

7. **Ramseyer, C.C.**, "Oklahoma's Earthquakes – A Structural Engineer's Perspective", *Oklahoma Better Building Summit, Oklahoma State Home Builders Association*, Oklahoma City, Oklahoma, September 2016
8. **Ramseyer, C.C.**, "High Winds, Lateral Bracing", *Oklahoma Better Building Summit, Oklahoma State Home Builders Association*, Oklahoma City, Oklahoma, September 2016
9. **Ramseyer, C.**, "Oklahoma's Earthquakes – A Structural Engineer's Perspective", *What's Shaking Oklahoma? Oklahoma Commercial Real Estate Forum™: Earthquakes*, Central Oklahoma Commercial Association of REALTORS® (COCAR™), Oklahoma City, Oklahoma, Sept 2016
10. **Ramseyer, C.**, "Setting the Standard – New Building Codes for Tornado Resistance", *North Texas Chapter of the International Code Council (ICC)* Grapevine, Texas, April 2016
11. **Ramseyer, C.**, "B-CSA Pavement Research", *University of Texas – Austin, CRCP FAST Act* Austin, Texas, March 2016
12. **Ramseyer, C.C.**, "The Development of the City of Moore – New Building Code for Tornado Resistance", *Oklahoma Better Building Summit, Oklahoma State Home Builders Association*, Oklahoma City, Oklahoma, September 2015
13. **Ramseyer, C.**, "An Assessment of School and Commercial Facility Performance Due to the May 20th, 2013, Moore, Oklahoma Tornado", *Board of Architects*, Metro Tech/Spring Lake, Oklahoma City, Oklahoma, April 2015
14. **Ramseyer, C.C.**, "The Development of the City of Moore – New Building Code for Tornado Resistance", *Board of Architects*, Metro Tech/Spring Lake, Oklahoma City, Oklahoma, April 2015
15. **Ramseyer, C.C.**, "The Use of Shrinkage Compensating Concrete in an Underground Water Tank", *ACI-Oklahoma Chapter Meeting*, Oklahoma City, Oklahoma, November 2014
16. **Ramseyer, C.C.**, Fagan, J., Dyer, J., "Dialog with Galileo: A Learning Community for Engineering at OU Arezzo", *Teaching Scholars Initiative*, Norman, Oklahoma, October 2014
17. **Ramseyer, C.**, "Tornadoes – Is Community Resiliency Possible?", *Oklahoma Building Inspectors Association – Annual Conference*, Ada, Oklahoma, October 2014
18. **Ramseyer, C.**, "Considering the 2009 International Residential Code?", *Oklahoma Building Inspectors Association – Annual Conference*, Ada, Oklahoma, October 2014
19. **Ramseyer, C.**, Holliday, L., Floyd, R., "Tornadoes – Taking Shelter" subtitled 'Is Community Resiliency Possible?', *Oklahoma Chapter of the American Planning Association – Annual Conference*, Norman, Oklahoma, October 2014
20. **Ramseyer, C.**, "New Building Code for Tornado Resistance", *Southwest Construction Codes Council*, Del City, Oklahoma, September 2014
21. **Ramseyer, C.**, "Residential Foundation Design for Central Oklahoma", *Southwest Construction Codes Council*, Del City, Oklahoma, September 2014

22. **Ramseyer, C.C.**, "High Wind Construction - Lateral Load Resistant Design for High Wind Events", *Oklahoma Better Building Summit, Oklahoma State Home Builders Association*, Mid-West City, Oklahoma, September 2014
23. **Ramseyer, C.C.**, "Residential Foundation Design for Central Oklahoma", *Oklahoma Better Building Summit, Oklahoma State Home Builders Association*, Mid-West City, Oklahoma, September 2014
24. **Ramseyer, C.**, "New Building Code for Tornado Resistance", Oklahoma City Engineering Club Meeting, Purcell, Oklahoma, May 2014
25. **Ramseyer, C., Bescher, E.**, "100 Year Pavement", Federal Aviation Administration Headquarters, Washington D.C., May 2014
26. **Ramseyer, C.**, "New Building Code for Tornado Resistance", Association of Central Oklahoma Governments Meeting for City Managers, Oklahoma City, Oklahoma, May 2014
27. **Ramseyer, C.**, "Tornado Research", 2014 Mid-Continent Student Conference, Banquet Dinner – Keynote Presentation, Stillwater, Oklahoma, April 2014
28. **Ramseyer, C.**, "New Building Code for Tornado Resistance", Association of Central Oklahoma Governments Meeting for City Planners, Oklahoma City, Oklahoma, April 2014
29. **Ramseyer, C.**, "New Building Code for Tornado Resistance", Purcell Rotary Club Meeting, Purcell, Oklahoma, April 2014
30. **Ramseyer, C.**, "New Building Code for Tornado Resistance", Enid Homebuilders Meeting, Oklahoma City, Oklahoma, April 2014
31. **Ramseyer, C.**, "City of Moore – New Building Code for Tornado Resistance Adoption", City of Moore Council Meeting, Moore, Oklahoma, March 17, 2014
32. **Ramseyer, C.**, "New Building Code for Tornado Resistance", Central Oklahoma Habitat for Humanity Meeting, Oklahoma City, Oklahoma, March 2014
33. **Ramseyer, C.**, "City of Moore – New Building Code for Tornado Resistance", City of Moore Council Meeting, Moore, Oklahoma, February 2014
34. **Ramseyer, C.**, "Lessons Learned from the May 20th Tornado", *ASCE-Oklahoma City Chapter Meeting*, Oklahoma City, Oklahoma, February 2014
35. **Ramseyer, C.**, "City of Moore – New Building Code for Tornado Resistance", Moore Home Builders Meeting at City Hall, Moore, Oklahoma, January 2014
36. **Floyd, R., Ramseyer, C.**, "Performance of Structures in the May 20th Moore Tornado: NSF Evaluation -- A Quick Review", University of Arkansas Civil Engineering Graduate Seminar, Fayetteville, Arkansas, January 2014
37. **Ramseyer, C.**, "City of Moore – New Building Code for Tornado Resistance", City of Moore Meeting at City Hall, Moore, Oklahoma, December 2013
38. **Ramseyer, C.**, "Lessons Learned from the May 20th Tornado", Moore Home Builders Association, Moore, Oklahoma, November 2013

39. **Ramseyer, C.C., Butzer, H., and Fitzsimmons, K.**, “Bridge to Design Thinking”, 2013 *Building Bridges, State of Creativity Forum*, Oklahoma City, Oklahoma, November 2013
40. **Ramseyer, C.**, “Lessons Learned from the May 20th Tornado”, Builders Association of South Central Oklahoma, Norman, Oklahoma, November 2013
41. **Ramseyer, C.**, “Opening Session: Moore Tornado – May 20th, “Before the storm and after”, 10th Annual Oklahoma Homebuyer Education Association Conference, Edmond, Oklahoma, November 2013
42. **Ramseyer, C.C., Butzer, H., and Fitzsimmons, K.**, "SkyDance Bridge", *Transformations – 2013 AIA Central States Region and AIA Oklahoma Convention, Trade Show and Design Awards*, Oklahoma City, Oklahoma, October 2013
43. **Ramseyer, C.**, “Lessons Learned from the May 20th Tornado”, State of Oklahoma, House of Representatives Interim Study **13-016**, Economic Development, Chairman Rep. Randy McDaniel, HOST: Rep. Richard Morrisette, District 92, Oklahoma City, Oklahoma, September 26th, 2013
44. **Ramseyer, C.C.**, "Structural Framing, Walls", *Oklahoma Better Building Summit, Oklahoma State Home Builders Association*, Mid-West City, Oklahoma, September 2013
45. **Ramseyer, C.C.**, "Structural Framing, Roofs", *Oklahoma Better Building Summit, Oklahoma State Home Builders Association*, Mid-West City, Oklahoma, September 2013
46. **Ramseyer, C.C.**, "Foundations, Soils and Concrete", *Oklahoma Better Building Summit, Oklahoma State Home Builders Association*, Mid-West City, Oklahoma, September 2013
47. **Ramseyer, C.C.**, "Rapid Setting Concrete – 2 hours from casting to stripping", *ACI-Oklahoma Chapter Meeting*, Oklahoma City, Oklahoma, September 2013
48. **Ramseyer, C.**, “Moore Tornado – May 20th, NSF & ASCE/SEI Evaluations”, *Montenaro Lunch and Learn*, Moore, Oklahoma, August 2013
49. **Ramseyer, C.**, “Moore Tornado – May 20th, NSF & ASCE/SEI Evaluations”, *ASCE-Oklahoma City Chapter Meeting*, Oklahoma City, Oklahoma, August 2013
50. **Ramseyer, C.C.**, "Flange Connection to Gussett Plate – The Intel Problem”, *W&W Steel corp*, Oklahoma City, Oklahoma, May 2013
51. **Ramseyer, C.C.**, " Rapid Setting Concrete, Cement Types and Performance Characteristics used by CalTrans”, *Caltrans - District 7*, Los Angeles, California, April 2013
52. **Ramseyer, C.C.**, "Investigation of Very Early Strength Concrete with Low Shrinkage Properties”, *ACI-Oklahoma Chapter Meeting*, Oklahoma City, Oklahoma, April 2013
53. **Ramseyer, C.C.**, "Field Testing of Low Shrinkage Concrete in a Six Million Gallon Water Tank”, *Oklahoma Structural Engineer’s Association –central chapter meeting*, Oklahoma City, Oklahoma, February 2013
54. **Ramseyer, C.C.**, "Shrinkage Compensating Concrete for Crack Free Bridge Decks”, *ODOT-Headquarters*, Oklahoma City, Oklahoma, February 2013

55. **Ramseyer, C.C.**, " Preservation, Repair and Rehabilitation of Concrete Pavements – Dimensional Stability of Concrete Slabs on Ground", *Caltrans - District 7*, Los Angeles, California, January 2013
56. **Ramseyer, C.C.**, "Preservation, Repair and Rehabilitation of Concrete Pavements - Bridges Without Cracks", *Caltrans - HQ*. Sacramento, California, January 2013
57. **Ramseyer, C.C.**, "Preservation, Repair and Rehabilitation of Concrete Pavements – Dimensional Stability of Concrete Slabs on Ground", *Caltrans - HQ*. Sacramento, California, January 2013
58. **Ramseyer, C.C.**, "600 Bridges Without Cracks", *Wiss Janney Elstner Associates Inc.*, Austin, Texas, January 2013
59. **Ramseyer, C.C.**, "Unrestrained and Restrained VWSG Shrinkage-Expansion Testing", *CTS Cement Manufacturing Inc.*, Los Angeles, California, December 2012
60. **Ramseyer, C.C.**, "Structural Engineering at OU", *Structural Engineer Council of Oklahoma*, Oklahoma City, Oklahoma, November 2012
61. **Ramseyer, C.C., Butzer, H.**, "The Oklahoma City SkyDance Bridge: The Collaborative Process", A pecha kucha format Creativity Slam, State of Creativity Forum, Oklahoma City, Oklahoma, November 2012
62. **Ramseyer, C.C., McLean, E., Rubin, E.**, "600 Bridges Without Cracks", *ACI-Oklahoma Chapter Meeting*, Oklahoma City, Oklahoma, November 2012
63. **Ramseyer, C.C.**, "Wall Bracing – What does the IRC 2009 Require?", *Oklahoma State Home Builders Association*, Oklahoma City, Oklahoma, October 2012
64. **Muraleetharan, K. K.**, Bright, Z., Miller, G., Breazile, C., Ramseyer, C., Kirupakaran, K., "Understanding Distress to Bridges Caused from Interaction with Adjacent Roadways through Instrumentation", *2012 ODOT-OkTC Transportation Research Day*, Mid-West City, Oklahoma, October 2012
65. **Ramseyer, C.C., Phillips, J., Ramming, C.**, "State of Our Schools", *Oklahoma Structural Engineer's Association –central chapter meeting*, Oklahoma City, Oklahoma, June 2012
66. Ramseyer, C.C., **Carroll, S., Butzer, H.**, Massenat, L., Fitzsimmons, K., Wanzer, D., Gardner, J., Johnson, B., "SkyDance Bridge – A Designers Point of View", *Oklahoma Structural Engineer's Association –central chapter meeting*, Oklahoma City, Oklahoma, May 2012
67. **Ramseyer, C.C., Carroll, S., Butzer, H.**, Massenat, L., Fitzsimmons, K., Wanzer, D., Gardner, J., Johnson, B., "SkyDance Pedestrian Bridge over I-40 in Oklahoma City", *Oklahoma Structural Engineer's Association – Spring Conference 2012*, Stillwater, Oklahoma, April 2012
68. **Ramseyer, C.C.**, "Considering the 2009 International Residential Code", *Adoption of the 2009 edition of the International Residential Code Meeting- Building Inspection 8th floor*, 420 W. Main, Oklahoma City, Oklahoma, March 2012
69. **Carroll, S., Butzer, H., Ramseyer, C.C.**, Massenat, L., Fitzsimmons, K., Wanzer, D., Gardner, J., Johnson, B., "The Oklahoma City SkyDance Bridge: The evolution of an idea through a design collaboration.", *OSU School of Architecture*, Stillwater, Oklahoma, March 2012

70. **Ramseyer, C.C.**, "Considering the 2009 International Residential Code", *Adoption of the 2009 edition of the International Residential Code Meeting- City Hall*, Norman, Oklahoma, January 2012
71. **Mekker, M.**, Ramseyer, C.C., Brewer, W., "Overview of Transportation Issues at Fears Lab", *Oklahoma Transportation Center – Summer Symposium*, Midwest City, Oklahoma, July 2011
72. **Shadravan, S.**, Ramseyer, C.C., "Dimensional Stability of Slabs on Grade", *Oklahoma Transportation Center – Summer Symposium*, Midwest City, Oklahoma, July 2011
73. **Ramseyer, C.C.**, "SkyDance – Evolution of a Bridge Design", *ODOT-Headquarters*, Meeting Including ODOT, City of OKC, FHWA and independent Engineering Firms, Oklahoma City, Oklahoma, May 2011
74. **Ramseyer, C.**, McLean, E., Davis, C., Gummersheimer B., Trautman, B., Martens, P., Amos, D., Schmidt, I., Diaz, L. and Sharp, R., "Experience with Rapid Setting, Low Permeability Bridge Overlays in the St. Louis Area", *ASCE-Oklahoma City Chapter Meeting*, Oklahoma City, Oklahoma, March 2011
75. **Ramseyer, C.C.**, "Recommendations of the International Residential Code Building Subcommittee", *Oklahoma Uniform Building Code Commission Meeting*, Oklahoma City, Oklahoma, November 2010
76. **Ramseyer, C.C.**, "Experience with 4 Bridges in the St. Louis Area", *ASCE-Oklahoma City Chapter Meeting*, Oklahoma City, Oklahoma, October 2010
77. **Ramseyer, C.C.**, "Evaluation of the Effectiveness of ODOT's Cable Barrier Program", *OTC Transportation Research Day, Annual Fall Meeting*, Oklahoma City, Oklahoma, October 2010
78. **Ramseyer, C.C.**, "Transportation at Fears Lab", *OTC Transportation Research Day, Annual Fall Meeting*, Oklahoma City, Oklahoma, October 2010
79. **Ramseyer, C.C.**, "Low-P Overlay Bridge Decks, 12th Street, Russell & Gravoix, Lafayette and Pestalosi", *Evaluation Meeting with MoDOT*, St. Louis, Missouri, September 2010
80. **Ramseyer, C.C.**, "Overview of Transportation Issues at Fears Lab", *Oklahoma Transportation Center – Summer Symposium*, Midwest City, Oklahoma, July 2010
81. Ramseyer, C.C., **Shadravan, S.**, "Dimensional Stability of Concrete Slabs on Grade", *ACI-Oklahoma Chapter Meeting*, Oklahoma City, Oklahoma, May 2010
82. **Ramseyer, C.C.**, "Transportation at Fears Lab", *OTC-Oklahoma Transportation Center, Meeting with RITA*, Norman, Oklahoma, March 2010
83. **Ramseyer, C.C.**, "Extreme Concrete – Cold Weather Concrete on a Rapid Build Construction Site", *ACI-Oklahoma Chapter Meeting*, Oklahoma City, Oklahoma, February 2010
84. **Ramseyer, C.**, "SkyDance – Evolution of a Bridge Design", American Society of Civil Engineers, ASCE, Oklahoma Section Annual Conference, Advanced Technology Research Center, Oklahoma State University, Stillwater, August 28th, 2009
85. Butzer, H. and **Ramseyer, C.**, "SkyDance – The Creation and Evolution of the Bridge", Meachum Hall, Construction Science Speakers Program, University of Oklahoma, Norman April 14th, 2009

86. **Ramseyer, C.C.**, "The Relevance of OU's Fears Lab to the Local Structural Engineering Community" Oklahoma Structural Engineering Association (*OSEA*) - *Oklahoma Central Chapter Meeting*, Oklahoma City, Oklahoma, February 2009
87. **Ramseyer, C.C.**, "Pozzolan Concrete Research at The University of Oklahoma Fears Lab", *ACI-Oklahoma Chapter Meeting*, Oklahoma City, Oklahoma, December 2008
88. **Ramseyer, C.C.**, "High Performance Concrete in Oklahoma", *ODOT/OTC Research Day*, Oklahoma City, Oklahoma, October 2008
89. **Ramseyer, C.C.**, "Fears Lab and its Impact on Engineering Education", *ASCE-Oklahoma City Chapter Meeting*, Oklahoma City, Oklahoma, October 2008
90. **Ramseyer, C.C.**, "Concrete Chemistry and Materials Research at Fears Lab", *Dolese Seminar*, Oklahoma City, Oklahoma, October 2008
91. **Campbell, M.**, Ramseyer, C.C., "Introduction to Fears Lab and Student Activities", *ACI-Tulsa Chapter Meeting*, Tulsa, Oklahoma, September 2008
92. **Ramseyer, C.C.**, "Fast Track Materials", *ACPA-Oklahoma/Arkansas Chapter – 2008 Oklahoma Portland Cement Concrete Pavement Conference*, Oklahoma City, Oklahoma, March 2008
93. **Ramseyer, C.C.**, "The Tulsa Experience with Concrete Overlays", *ACI-Oklahoma Chapter Meeting*, Oklahoma City, Oklahoma, February 2008
94. **Ramseyer, C.C.**, "Experiences with Bridge Construction - Oklahoma", *Pooled-Fund Seminar: Construction of Crack-Free Bridge Decks*, Oklahoma City, Oklahoma, October 2007
95. **Ramseyer, C.C.**, "Pier and Grade Beam Foundations" *Oklahoma Board of Registration*, Open forum meeting, Oklahoma City, Oklahoma July 2007
96. **Ramseyer, C.C.**, " Stability Bracing Requirements for Metal Building Frame Systems", *Metal Building Manufacturers Association, MBMA Annual Researcher Symposium*, Tampa, Florida, February 2007
97. **Ramseyer, C.C.**, " Bridge Deck Repairs and The Tulsa Experience with Pavement Overlays", *GCC Seminar on Added Value Products Rapid Set, CTS Type K Shrinkage Compensating Cement, Microsilix, Versabind* , Mid-Continent Ready Mix Offices, Tulsa, Oklahoma, January 2007
98. **Ramseyer, C.C.**, and Kiamanish, R., "Improved Blended Cement with Large Fly Ash Replacement", *Quality Action Seminar*, LaFarge Cement Co. Tulsa, Oklahoma, September 2006
99. Ramseyer, C.C., Freyne, S. and **Giebler, J.**, "High Performance Concrete for use in Oklahoma Bridge Decks", *30th Annual Transportation Research Day*, Oklahoma Department of Transportation, Oklahoma City, Oklahoma, September 2006
100. **Ramseyer, C.C.**, "Experiences with Bridge Construction - Oklahoma", *4th Annual Meeting for the Pooled-Fund Study: Construction of Crack-Free Bridge Decks*, Kansas City, Missouri, July 2006
101. **Ramseyer, C.C.**, "Steel Design in the Metal Building Industry" Star Building Systems, Oklahoma City, Oklahoma, February 2006

102. **Russell, B.W., and Ramseyer, C.C.**, "This is Not Your Father's Concrete or Understanding Concrete Science Leads to Performance", Session - High Performance Concrete and Research into Very Early Strength Production, *Shaping the Future of Concrete - GRACE Quality Control Seminar*, GRACE Construction Products, Cambridge, Massachusetts, November 12, 1998

INTELLECTUAL PROPERTY DEVELOPMENT

Liangzhong Xiang, Shanshan Tang, Christopher Ramseyer, "Method and system of X-ray-induced Acoustic Computed Tomography of Concrete Infrastructure," US Patent Application, ID Number: 16NOR045, Disclosed: May 2016

Gerardo Quinonez, Stuart Ronald, Christopher Ramseyer, "Bridge Structure and Method for bracing a bridge deck" US Patent Application, ID Number: 8,925,132 Disclosed: October 2013

SUPERVISION OF STUDENTS

Summary: *I have advised a total of 42 graduate students and graduated 2 Ph.D. students (1 woman (1 minority)/1 man (1 minority)), 34 M.S. students with thesis (5 women (2 minority)/30 men (7 minority)) and 6 M.S. students without thesis (0 women (0 minority)/6 men (4 minority)) . I have also directed the work of 88 undergraduate students in my "Camp Concrete" program (19 women (12 minority)/65 men (7 minority)) and 14 undergraduate students in the NSF-REU program (2 women (0 minority)/12 men (2 minority)) on undergraduate research projects. My students have won \$304,500 in awards while members of my research program.*

Ph.D. Degree

- 2011 Shideh Shadravan, "Dimensional Stability of Concrete Slabs on Grade"
- 2011 Krisda Piyawat, "A Suggested Design Approach for Built-up Cold-Formed Columns based on Research Using Non Linear Finite Element Method"

Master of Science Degree – with Thesis

- 2018 Dakota Gennings, "Investigation of Chemically Prestressed Concrete"
- 2018 Steve Roswurm, "Characterizing the Behavior of Concrete Cast with Type K Shrinkage Compensating Cement When Placed Under Mechanical Restraint"
- 2018 Jake Roswurm, "Influence of Retarders on Shrinkage and Compressive Strength in Rapid Set Concrete"
- 2016 Sam Sherry, "Assessment of Partial Joint Penetration Welds on Bolted End-plate Connections for Use in Intermediate Moment Frames"
- 2014 Jacquie Baker, "How Varying Amounts of Fly Ash Effect Shrinkage in Calcium SulfoAluminate Cement Concrete"
- 2013 Jesse Roswurm, "Investigation Into the Influence of Sand Angularity on the Standard Test for Strand Bond"
- 2013 Seth Carlton, "Material Behavior of Latex-Modified Concrete in Thin Hyperbolic Paraboloid Shells"

- 2013 Seth Roswurm, "Investigation of the Mechanical Behavior of Type K Shrinkage Compensating Concrete Under Various Forms of Mechanical Restraint"
- 2012 Carlos Rincon, "The Shrinkage Behavior of Calcium SulphoAluminate Concrete and Portland Concrete at Early Age"
- 2012 Kyle Renevier, "Investigation of Shrinkage Compensating Concrete in an Underground Water Tank"
- 2011 Andy Nghiem, "Flexural Behavior of Circular Concrete Filled Steel Tubes without Axial Loads" M.S.
- 2011 Pat Crowder, "The Tension Strength of Latex Modified Bonded Concrete Overlays"
- 2011 David Frank, "The Effects of Temperature on Compressive Strength of Rapid Setting Concrete"
- 2010 Mark Emde, "Investigation of Torsional Bracing of Cold-Formed Steel Roofing Systems"
- 2010 Chris Davis, "Investigation of Early-Age Bonded Concrete Overlay Failure"
- 2009 Marty Farris, "Self Consolidating Concrete for Use in Reinforced Bridge Beams"
- 2009 Derick Thompson, "Shrinkage Effects in the Transfer Zone of Prestressed Concrete Beams"
- 2009 Andrew Scherman, "Investigation of Non Destructive Testing Techniques on Aged Concrete Structures"
- 2008 Aaron Probst, "Improved Composite Action Using Shear Connectors for Concrete Filled Steel Tubes in Flexure"
- 2008 Kenny Biggs, "Axial Load Capacity of Cold-Formed, Built-Up Members"
- 2008 Jared Schwennesen, "An Evaluation of a 23" Garage Door Return System with the Application of a Lateral Load"
- 2008 Keara Phillips, "Prevention of Corrosion in Reinforced Concrete Structures"
- 2007 Roozbeh Kiamanesh, "Mechanically Activated Flyash for Blended Cement"
- 2007 Brent Chancellor, "Very Early Strength Concrete for Patching"
- 2007 Shideh Shadravan, "Bending Capacity of Cold Formed Z-Purlins Supporting a Standing Seam Roof System with Torsional Bracing"
- 2007 Clay Buehrle, "Cold-Formed Zee Purlin Capacity Study with Interaction of Web Stiffeners"
- 2007 Jessica Whittle, "Buckling Capacities of Axially Loaded, Cold-Formed, Built-Up Members"
- 2007 Matt Gastgeb, "Very Early Strength Concrete for Patching"
- 2007 Cory Yeager, "Corrosion of Prestressing Strands Used to Construct Bridge Girders"
- 2006 Jason Giebler, "The Use of High Performance Concrete in Oklahoma Bridge Decks"
- 2006 Daniel Myers, "Fiber Reinforced Concrete and Bridge Deck Cracking"
- 2005 Jen-Teck Kao, "Investigation into the Use of Portland Cement Concrete with Fiber Additives for Bridge Decks in the State of Oklahoma"
- 2004 Beth Brueggen, "Strength and Serviceability Issues of Cold-Formed Steel Joists"
- 2004 Vinay Joseph Thottunkal, "Axial Load Capacity of Cold-Formed Z Sections"

Master of Science Degree – Non Thesis

- 2014 Gary Quinonez, - Non Thesis topic – "Beam Bracing for Deck Slab Placement"

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| 2012 | Travis Poole, - Non Thesis topic – “The Investigation of Porosity Measurement Methods and the Relationship to Cement Microstructure” |
| 2012 | Hai Wei Lim, – Non Thesis topic – “Flexural Strength of Concrete-Filled Steel Tubes Subjected to Pure Bending” |
| 2012 | Foroud Moradi Sarmeidani, – Non Thesis topic – “Evaluation of Designing a Building with Different Materials” |
| 2010 | Kyle Haskett, – Non Thesis topic – “The use of Steel to Reinforce Soil” |
| 2009 | Victor Njiru, – Non Thesis topic – “SkyDance Foundation” |

**Undergraduate Research Supervision –
"Camp Concrete" – Research Experience for Under Graduates**

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| 2018 | Medani Dissanayake Alex Busby | Christian Schran Cole Mohedano | Cody Willingham |
| 2017 | Adam Aab | | |
| 2016 | Jacob Roswurm Dare Obasade | Steve Roswurm | Dakota Gennings |
| 2015 | Ofelia Olvera Uriah Nichols | Jacob Roswurm Raina Coleman | Steve Roswurm |
| 2014 | Ofelia Olvera Erik Reyes | Jacob Roswurm Ayanna Harris | Steve Roswurm Raina Coleman |
| 2011 | Charlie Mish Jenny Bergen Matt McSherry | Jesse Roswurm Alyse Burgess | Seth Roswurm Tim Duncan |
| 2010 | Pat Crowder David Frank | Jesse Roswurm Cassie Gonzales | Seth Roswurm |
| 2009 | Chris Davis David Frank | Mark Emde | Pat Crowder |
| 2008 | Kyle Haskett Michael Rice | Chris Hill Marissa Samaripa | Chris Davis |
| 2007 | David Swyden Marty Farris Andrew Scherman Andrew Nghiem | Mark Williams Kenny Biggs Michaela Campbell | Kyle Haskett Jared Schwennesen Patrick Crowder |
| 2006 | Roozbeh Kiamanesh Marty Farris Chris Ely Zach West Cortney Westphal | Daniel Myers Kenny Biggs Chris Harlin Brandon Birch Jared Schwennesen | David Swyden Shideh Shadravan Hai Wei Lim Geeta Ashabi Russell Buhler |
| 2005 | Derek Thompson Jason Giebler | Roozbeh Kiamanesh Jessica Whittle | Daniel Myers Keara Phillips |

| | | | |
|------|--|--|---|
| | Kate Nelson Ali Farzaneh Matt Gastgeb Chris Ely Ivy Lau | David Swyden Josh Malwick Randy Martin Chris Harlin Nam Nguyen | Matt Schachle Clay Buehrle Kenny Biggs Dustin Warden |
| 2004 | Brent Chancellor Derick Thompson Regina Cantu Jason Giebler | Roozbeh Kiamanesh Cory Yeager Derek McIntosh | Daniel Myers Katie McDowell B.J. Hawkins |
| 2002 | Beth Brueggen | | |
| 2003 | Beth Brueggen | | |

Undergraduate Research Supervision – Continued

NSF – Research Experience for Under Graduates

- 2012 Tim Duncan(OU) , Anthony Hanley (OU) and Brittany Cranor (OU)
- 2011 Michelle Mekker (University @ Buffalo NY) and Bryan Rinde (CSU Sacramento)
- 2010 Edward Eskew (Clarkson) and Cameron DuBois (Linfield)
- 2009 Pat Crowder (OU)
- 2008 Chris Hill (OU) and Michael Rice (OU)
- 2007 Alex Jones (Olin) and Gregory Streibling (Missouri-Rolla)
- 2006 Marty Farris (OU) and Jarrod Persun (Clarkson)

Undergraduate Research Supervision – – Continued

Awards to students

- 2017 Airport Cooperative Research Program (ACRP) Graduate Research Award to Steve Roswurm Value = \$10,000
- 2012 Robberson Research and Creative Endeavors Grant awarded to Seth Carlton for travel and research at Cambridge, England. Value = \$500
- 2007 Graduate Research Fellowship awarded to Jessica Whittle from the National Science Foundation (N.S.F.) Estimated Value = \$151,500
- 2004 Graduate Research Fellowship awarded to Beth Brueggen from the National Science Foundation (N.S.F.) Estimated Value = \$121,500
- 2004 Outstanding Graduate Assistant Award awarded to Beth Brueggen from the OU Graduate Student Senate. Value = \$500
- 2003 O.H. Ammann Research Fellowship in Structural Engineering awarded to Beth Brueggen for the proposal “Continuation of Inelastic Finite Element Modeling of the Weld Connections and End Region of Cold Form Steel Joists.” From the Structural Engineering Institute of ASCE. Value = \$5,000

- 2002 O.H. Ammann Research Fellowship in Structural Engineering awarded to Beth Brueggen for the proposal "Inelastic Finite Element Modeling of the Weld Connections and End Region of Cold Form Steel Joists." From the Structural Engineering Institute of ASCE. Value = \$5,000
- 2002 First Place, Technical Paper Competition, ASCE Mid-Continent Conference awarded to Beth Brueggen for the paper and presentation "Strength and serviceability issues of cold formed steel joists." Value = \$500

TEACHING EXPERIENCE

Classroom Education

| | | |
|-----------------------|---|--|
| Courses Taught (28) | CEES 1213 Computing Applications in CEES | Sp 04 |
| Sections Taught (120) | CEES 2113 Statics | F 14, 15, 16, 17, 18 |
| | CEES 3401 Engineering Economics | F 18, S 19, F 19, S 20, F 20 |
| | CEES 3403 Civil Engineering Materials | Sp 01, 02, 03, 04, 10, 11 |
| | CEES 3414 Structural Analysis | F 01, 09, 10, 11 |
| | CEES 3453 Introduction to Construction Management | Sp 16, 17, 19, 20 |
| | CEES 3663 Structural Design – Steel I | F 00, 01, 02, 03, 04, 05, 07, 08 Sp 14, 15, 16, 17, 19, 20 |
| | CEES 3763 Structural Design – Concrete I | Sp 05, 06, 07 |
| | CEES 4050 Design Problems in Civil Engineering | F and Sp 00, 01, 02, 03 |
| | CEES 4803 Professional Practice – Pre Capstone | F 05, 06, 07, 08 |
| | CEES 4753 Structural Design – Wood | F 13 |
| | CEES 4774 Structural Design – Steel and Concrete | Sp 10, 11, 12, 13 |
| | CEES 4903 Civil Engineering Design – Capstone | Sp 06, 07, 08, 09, 13 |
| | CEES 4993 Architectural Engineering Design, Capstone | Sp 08, 09, 13 |
| | CEES 5010 Research Problems – Timber Design | Su 04 |
| | CEES 5010 Research Problems – Concrete Design | Sp 06 |
| | CEES 5020 Corrosion Issues with Bridges | F 04 |
| | CEES 5020 Bridge Deck Overlays | Sp 05 |
| | CEES 5020 Bridge Engineering | F 11 |
| | CEES 5020 Structural Design - Masonry | F 12 |
| | CEES 5673 Structural Design – Concrete II | F 05 |
| | CEES 5773 Structural Design – Steel II | Sp 01, 02, 03, 04, 05, 06, 08, 09 F 13 Sp 15 F 15, 16, 18, 19, 20, F 21 |
| | ENGR 1420 Freshman Orientation | Sp 07, 08, 09 |
| | ENGR 2002 Professional Development | F 14, 15, 16, 17, 18 |
| | ENGR 3401 Engineering Economics | F 07, 08, 09, 15, 16, 18 S 19, F 19, S 20, F 20, S 22 |
| | ENGR 4510 Disruptive and Innovative Technology Ideation | F 15 |
| | ENGR 4510 Money and the Engineer | Su 06, 07 – Sp 08, 09 F 16 |
| | HON 3980 Honors Research | Sp 02, F 05, Sp 10, Sp 13, Su 13 |

Additional Educational Activities

| | |
|-----------------------------------|---|
| Seminars and Programs Taught (29) | <i>Participated in OU summer student programs for K-12 STEM development:</i> |
| | DEVAS (Discovering Engineering Via Adventures in Science) (2008, 2009, 2010, 2011, 2012, 2013) |
| | BP Engineering Academy. (2008, 2009, 2010, 2011, 2012, 2013) |
| | Passport to Engineering middle school camp (2011) |
| | GLAMS (Girls Learning About Math and Science) (2011) |

These are outreach programs for severely under represented youth in engineering. The teaching exercise consists of building structures that are then tested to failure on the shake table at the Donald G. Fears Structural Engineering Lab. This is followed by re-building the structures and re-testing. The rebuilt second structure ALWAYS exceeds the behavior of their first structure. A brief discussion follows on how engineers learn from failure.

Organized and developed with Wilson Brewer from Langston University the following:

Langston 4-H Transportation Program (2009 to 2015)

Upward Bound (2011)

Project Promise (2012)

National Summer Transportation Institute (2012)

These are outreach program for severely under represented youth in engineering. This program introduces the students to the Donald G. Fears Structural Engineering Lab and transportation issues and challenges faced by Oklahoma. In 2011 these programs participated in the shake table program described above.

Participated OU summer teacher programs for K-12 STEM development:

Creating Critical Connections in Math and Science C3[M+S]

Immersing Middle School Teachers in Research Experiences in Math and Science

1. Program investigated the classical column buckling experiments by Euler and how to relate these engineering experiments to secondary school students. This program included a visit to the History of science collection which allowed the teachers to handle books published by Galileo and Euler, June 1st through 12th, 2009
2. Program investigated the use of simple analytical bridge modeling and statistics to a better understanding of engineering and science for secondary school students. June 6th through 17th, 2011, 2012, 2013 and 2014

Research Experience for Teachers (RET) Site: Strengthening a K12 Learning Community through Engineering Research. Sponsor: National Science Foundation. My group investigated the use of both simple analytical and physical bridge modeling, coupled with statistics to form a better understanding of engineering and science for High school teachers. June 13th through July 22nd, 2011, 2012 & 2013

Williams Student Leadership Retreat OU student development programs:

Presented: "Leadership vs. Management" (2009)

"Effective Meetings" (2011)

"Leadership of a Small Group" (Spring 2012)

"Leadership Examples and Mentors" (Fall 2012)

"Strategic vs. Tactical Planning" (Fall 2013)

Participated in the following industry development programs:

"Steel Design in the Metal Building Industry" (Su 04, Sp 05, Sp 06)

Star Building Systems, Oklahoma City, Oklahoma

Each of these events is a 60 hour lecture series

Additional Creative Activities

| | |
|-------------------------|--|
| 2013 | ASCE/SEI Moore, Oklahoma Tornado Assessment Team. Assessment of the schools, hospital and commercial buildings damaged by the May 20 th EF-5 Tornado Team members included: Bill Coulbourne, David Prevatt, Eric Stafford, John Joyce, and Dean Shafer |
| 2008 – 2012 | <i>Lead</i> Structural Engineer for the SkyDance Bridge \$6.4 million dollar Iconic pedestrian bridge to cross I-40 and connect the Oklahoma City “Core to Shore” project Collaborative Team.Members: Butzer Design Partnership, SXL and MKEC |
| 2010 | Extreme Home Makeover National Team.Members: ABC, CTS Commercial Team Members: Ideal Homes, Dolese OU Team.Members: ASCE, AEI and ESSA student Chapters |
| 2009 – 2010 | Morgan Park Fishing Pier Renovation Project Rebuilt 270 ft. wood structure Local Sponsor:: City of Norman OU Team.Members: ASCE, and AEI student Chapters |
| 2007 and Ed. 2- 2008 | Eric Bescher (UCLA) and Chris Ramseyer (OU), “Calcium Sulfoaluminate Cement and Concretes” Teaching Tutorial PowerPoint sent to 250 plus universities |
| 1998 | Renovation and Improvement of the Odd Fellows water wheel, Turner Falls OK |

SERVICE

PROFESSIONAL SERVICE

Oklahoma State Board of Licensure for Professional Engineer and Land Surveyors

Board Member (2017 - 2023)

Chairman (2022 - 2023)

Vice Chair (2021 - 2022)

Secretary (2020 – 2021)

Scholarship Committee - Chair (18-20) Member (20-present) (2018 - 2023)

National Council of Examiners for Engineering and Surveying (NCEES)

Voting Member (2017 - 2023)

Southern Zone Secretary – Treasurer (2020 – 2022)

Fundamentals of Engineering (FE) Exam Committee Member (2018 - present)

American Concrete Institute, (ACI)

Committee 223, Shrinkage-Compensating Concrete (2008 - present)

Chair (2018 - present)

Secretary (2013 - 2018)

Committee S802, Teaching Methods and Educational Materials (2013 - present)

Committee 242, Alternative Cements (2018 – present)

Editor Special Publication – 307 “Shrinkage-Compensating Concrete – Past, Present, and Future” sponsored by Committee 223 (2013 - 2016)

223 Conference Session Organizer and Moderator:

Ramseyer, C. (2021) “Shrinkage-Compensating Concrete Design and Research in Memory of Edward K. Rice”, ACI Fall 2021 Convention, October 17-21, 2021

223 Conference Session Organizer and Moderator:

Ramseyer, C. (2012) “Shrinkage-Compensating Concrete – Past, Present, and Future” Technical Session 1&2, ACI Fall 2012 Convention, October 21-25, 2012

Oklahoma Uniform Building Code Commission

| | |
|---|---------------|
| IRC - Building Technical Review Committee | (2021 - 2022) |
| IRC – Ice and water roof Technical Review Committee | (2021 - 2022) |
| Storm Shelter Committee – Vice Chair | (2016 - 2017) |
| IRC - Building Technical Review Committee - Chair | (2015 - 2016) |
| IBC - Building Technical Review Committee | (2014 – 2015) |
| IRC - Building Technical Review Committee - Chair | (2010 - 2011) |

American Iron and Steel Institute, (AISI)

| | |
|--|---------------|
| Committee on Specifications | (2006 - 2016) |
| Task Force Group 4 – Base Test and Anchorage | (2006 - 2016) |
| Subcommittee 22 – Compression Members | (2005 - 2016) |
| Subcommittee 24 – Flexural members | (2006 - 2016) |

Oklahoma Department of Transportation – 2009 Specification

Section 500 Committee (completed the rewriting of this section) (2008-2010)

Structural Stability Research Council, (SSRC)

| | |
|---------------------------------|---------------|
| Task Group 1 – Axial Columns | (2007 - 2010) |
| Task Group 4 – Frames | (2005 - 2010) |
| Task Group 6 – Research Methods | (2005 - 2010) |

American Society of Engineering Educators, (ASEE)

| | |
|--|--------------|
| Reviewer for the Proceeding of the 2005 Midwest Section Conference | |
| Reviewer for the ERM Division | (2007, 2008) |

American Institute of Steel Construction, (AISC)

Oklahoma Society of Structural Engineers, (OSEA)

American Society of Civil Engineers, (ASCE)

National Society of Professional Engineers, (NSPE)

UNIVERSITY SERVICE – (Note: Sabbatical Fall 2017 and Spring 2018)

| | |
|--|--|
| Director Fears Structural Engineering Lab | (summer 2008 – 2019) |
| Faculty Welfare Committee Chair (2015-2017) | (fall 2013 – spring 2017) |
| Retirement Plans Management Committee | (fall 2014 – spring 2017) |
| Faculty Senate Executive Committee | (spring 2014, fall 2015 – spring 2017) |
| E-Club Advisor | (fall 2009 - spring 2017) |
| Loyal Knights of Old Trusty Advisor | (spring 2008 – spring 2016) |
| CoA/CoE Council | (fall 2009 - 2013) |
| Engineering Practice Facility – COE Task Force | (2007) |

DEPARTMENT SERVICE– (Note: Sabbatical Fall 2017 and Spring 2018)

| | |
|---|----------------------|
| CEES Committee A | (2018 – Jan 2021) |
| CEES Undergraduate Curriculum Committee | (2010 – Jan 2021) |
| CEES Scholarship Committee Chair (2015- Jan 2021) | (2010 – Jan 2021) |
| CEES Technology and Software Review Committee | (2013 – spring 2017) |
| Fears Structural Engineering Laboratory Oversight Committee Chair | (2008 – spring 2017) |
| ASCE Student Chapter, Faculty Advisor | (2006 – spring 2017) |
| OU- ASCE Concrete Canoe/Steel Bridge, Faculty Advisor | (2000 - spring 2017) |
| ASCE Mid-Continent Regional Conference, Faculty Chair | (2018-2019) |
| ASCE Mid-Continent Regional Conference, Overall Coordinator | (2009-2010) |
| ASCE Mid-Continent Regional Conference, Competition Coordinator | (2001-2002) |

| Year | Canoe | Regional | | Nationals | | Role |
|------|---------------------------|----------|----------|-----------|------------------|------------|
| | | Ranking | Location | Ranking | Location | |
| 2000 | SS Minnow | 4th | UMR | | | co-Advisor |
| 2001 | Bringing the Heat | 2nd | UA | 14th | San Diego, CA | co-Advisor |
| 2002 | Jaws | 2nd | OU | 8th | Madison, WI | co-Advisor |
| 2003 | Sooner or Later | 1st | KSU | 5th | Philadelphia, PA | co-Advisor |
| 2004 | Proplous | 1st | UNL | 17th | Washington D.C. | co-Advisor |
| 2005 | Smoke on the Water | 2nd | SIUE | | | Advisor |
| 2006 | Sword in the Stone | 1st | UMC | 16th | Stillwater, OK | Advisor |
| 2007 | Centennial | 1st | KU | 7th | Seattle, WA | Advisor |
| 2008 | The Eliminator | 1st | UA | | Montreal, Canada | Advisor |
| 2009 | Sixty Six | 2nd | SIUC | | | Advisor |
| 2010 | 100 Year Storm | 2nd | OU | | | Advisor |
| 2011 | Wild Mary Sudik | 1st | KSU | 12th | Evansville, IN | Advisor |
| 2012 | Legend of the Thunderbird | 4th | UNL | | | Advisor |
| 2013 | Unearthed | 1st | SIUE | 14th | Urbana, Ill | Advisor |
| 2014 | Pops | 2nd | OSU | | | Advisor |
| 2015 | USS Oklahoma | 3rd | KU | | | Advisor |
| 2016 | Boldly Go | 2nd | MST | | | Advisor |
| 2017 | Eco Canoe | 2nd | UA | | | Advisor |

SAME Student Chapter, Faculty Advisor (2011 – 2015)

AEI Student Chapter, Faculty Advisor (2011 – 2013)

Fears Structural Engineering Lab Expansion Organizer

- Phase I, 4,320 sq ft High Bay Expansion (2006, 2007)
- Phase II, 1,800 sq ft Concrete Shrinkage and Curling Lab (2008)
- Phase III, 2+ Acre exterior storage and testing (2011 & 2012)
- Phase IV, 9,480 sq ft High Bay Expansion (2018 to 2021)

Fears Lab Expansion - Dedication Celebration Organizer (2007)

CEES Structural Faculty Search Committee, Member (6 times from 2001 to 2006, 2012 & 2013)

CEES Director Search Committee, Member (2000, 2012)

Fears Lab 25th Anniversary Celebration Organizer (2005)

OU – CEES Visiting Council, Member
ASCE Student Chapter, Practitioner Advisor

(5 years from 1999 to 2003)
(2001-2003)