

Mary Beth D. Hueste, Ph.D., P.E., F.ACI

Professor of Civil Engineering

Contact Information

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Biosketch

Dr. Mary Beth Hueste is a Professor in the Zachry Department of Civil Engineering at Texas A&M University. She joined Texas A&M University in 1998 where she is a member of the structural engineering faculty. Dr. Hueste is the Major Highway Structures Program Manager and Acting Division Head for the Construction, Geotechnical and Structures (CGS) Division within the Texas A&M Transportation Institute. She is a Fellow of the American Concrete Institute (ACI), and is currently Voting Member of ACI Subcommittee 318-J (Joints and Connections), ACI-ASCE Committee 352 (Joints and Connections in Monolithic Concrete Structures), and ACI Committee 374 (Performance Based Seismic Design of Concrete Buildings). She served as Chair of Committee 352 from 2009-2016. Dr. Hueste conducts research focused on earthquake resistant design of reinforced concrete structures, performance-based seismic design, design and evaluation of prestressed concrete bridge structures, and assessment of aging and historic infrastructure. She has authored or co-authored over 80 technical papers and reports. Dr. Hueste teaches undergraduate and graduate courses in structural engineering, including statics, structural concrete design, structural steel design, prestressed concrete design, and advanced reinforced concrete design; along with the undergraduate structural engineering capstone design course and the general civil engineering undergraduate capstone design course.

Professional Preparation and Registration

Education

Ph.D. Civil Engineering, University of Michigan, 1997
M.S. Civil Engineering, University of Kansas, 1993
B.S. Civil Engineering, North Dakota State University, 1988, With Honor

Professional Engineering Registration

Kansas License Number 12774, Issued February 1993
Texas License Number 89660, Issued March 2002

Professional Experience

Academic

2012 – present Professor, Zachry Department of Civil Engineering, Texas A&M University
2010 – present Interim Division Head; Construction, Geotechnical, and Structures Division; Texas A&M Transportation Institute (TTI), Texas A&M University
2010 – 2013 Division Head; Construction, Geotechnical, and Structures Division; Zachry Department of Civil Engineering, Texas A&M University
2005 – present Program Manager, Major Highway Structures, TTI, Texas A&M University
2005 – 2012 Associate Professor, Department of Civil Engineering, Texas A&M University

- 2005 – 2009 Assistant Division Head; Construction, Geotechnical, and Structures Division;
Department of Civil Engineering, Texas A&M University
- 1998 – 2005 Assistant Professor, Department of Civil Engineering, Texas A&M University
- 1994 – 1997 Graduate Assistant, Dept. of Civil & Environmental Engineering, Univ. of Michigan

Industry

- 1988 – 1993 Structural Engineer, Black & Veatch, Overland Park, Kansas
- Summer 1987 Civil Engineering Technician, North Dakota Soil Conservation Service, Bismarck

Courses Taught

Undergraduate

- ENGR 111 – Foundations of Engineering I
- CVEN 221 – Engineering Mechanics: Statics
- CVEN 400 – Design Problems in Civil Engineering
- CVEN 444 – Structural Concrete Design
- CVEN 446 – Structural Steel Design
- CVEN 483 – Analysis and Design of Structures

Graduate

- CVEN 621 – Advanced Reinforced Concrete Design
- CVEN 671 – Behavior and Design of Prestressed Concrete Structures
- CVEN 681 – Seminar in Construction, Geotechnical and Structural Engineering

Honors and Awards

- 2016 *ACI Delmar L. Bloem Distinguished Service Award*, 2016, American Concrete Institute (ACI), “for outstanding leadership of Committee 352, Joints and Connections in Monolithic Concrete Structures—Joint ACI-ASCE”
- 2014 *Preservation Achievement Award*, Board of Historic Fort Worth, 2014, recognizing the Tarrant County bridge preservation program created by Texas A&M Transportation Institute and Texas Department of Transportation, PI – Mary Beth Hueste
- 2014 *TTI/Trinity Senior Researcher Award*, Texas A&M Transportation Institute
- 2013 *Leadership Impact Award*, Zachry Department of Civil Engineering, Texas A&M University
- 2011 *Fellow of the Institute*, American Concrete Institute
- 2011 *Williams Brothers Construction Company Fellow*, College of Engineering, Texas A&M University
- 2007 *E.B. Snead '25 Development Professorship II*, Zachry Department of Civil Engineering, Texas A&M University, 2007–2012
- 2004 *Ruth and William Neely '52/Dow Chemical Faculty Fellow*, 2004–2005, for outstanding performance and overall contributions to the Texas A&M Engineering Program
- 2003 *Mid-America Earthquake Center Award of Recognition*, “for leadership in successfully implementing the Mid-America Earthquake Center’s first Consequence-Based Engineering Institute”
- 2001 *Zachry Award for Excellence in Teaching*, 2001–2002, established by the Zachry Foundation and awarded through the TAMU Department of Civil Engineering
- 1994 – 1997 *Graduate Traineeship in Infrastructure Facilities*, National Science Foundation through the University of Michigan Department of Civil & Environmental Engineering

Research Projects

Reverse chronological order

<i>Condition Assessment of Bridge Post-Tensioning and Stay Cable Systems Using NDE Methods</i>			
NCHRP	Co-PI, PI – S. Hurlebaus	11/12 – 8/16	\$650,000
<i>Spread Slab Beams</i>			
TxDOT	PI, Co-PI – J. Mander	9/11 – 8/14	\$554,400
<i>Historic Bridges of Tarrant County</i>			
TxDOT	PI, Co-PI – S. Hurlebaus, I. Damnjanovic	9/11 – 8/13	\$150,000
<i>Continuous Prestressed Concrete Girder Bridges</i>			
TxDOT	PI, Co-PI – J. Mander	9/10 – 8/14	\$891,976
<i>Vulnerability Functions</i>			
NSF, Mid-America Earthquake Center	PI, Co-PI – P. Gardoni	10/05 – 8/08	\$121,629*
<i>Self-Consolidating Concrete for Precast Structural Applications</i>			
TxDOT	Co-PI, PI – D. Trejo	9/04 – 12/07	\$491,536
<i>Effects of Voids in Grouted, Post-Tensioned Concrete Bridge Construction</i>			
TxDOT	Co-PI, PI – D. Trejo	9/03 – 8/08	\$1,030,772
<i>Impact of LRFD Specifications on the Design of Texas Bridges</i>			
TxDOT	PI, Co-PI – P. Keating	9/03 – 8/05	\$200,901
<i>Structure Retrofit Strategies</i>			
NSF, Mid-America Earthquake Center	PI	9/02 – 9/05	\$254,700*
<i>Consequence Based Engineering (CBE) Institute</i>			
NSF, Mid-America Earthquake Center	PI, Co-PI – J. Bracci	9/02 – 9/05	\$41,200*
<i>Assessment of Seismic Risk for Sub-Sea Production Systems in the Gulf of Mexico</i>			
MMS through OTRC	Co-PI; PI – J. Bracci	9/01 – 8/03	\$100,000
<i>Allowable Stresses and Resistance Factors for High Strength Concrete</i>			
TxDOT	PI; Co-PIs – D. Trejo, D. Cline	1/00 – 05/03	\$313,627
<i>Study of Flexural Cracking in Cantilever Standard Design Interior Bent Caps</i>			
TxDOT	Co-PI; PI – J. Bracci	9/98 – 8/00	\$206,422
<i>Performance of Rehabilitated Floor and Roof Diaphragms</i>			
NSF, Mid-America Earthquake Center	Co-PI; PI – J. Bracci	4/98 – 12/01	\$265,000*
Total			\$5,272,163
* including TAMU match MMS = Minerals Management Service, NCHRP = National Cooperative Highway Research Program, NSF = National Science Foundation, OTRC = Offshore Technology Research Center, TxDOT = Texas Department of Transportation			

Publications

Reverse chronological order (* indicates past or current student)

Refereed Journal Publications

1. *Terzioglu, T., M.D. Hueste, and J.B. Mander, "Live Load Distribution Factors for Spread Slab Beam Bridges," *ASCE Journal of Bridge Engineering*, accepted for publication, April 2017.
2. *Zhou, Y. and M.D. Hueste, "Review of Test Data for Interior Slab-Column Connections with Moment Transfer," *ACI Special Publication - Punching Shear in Structural Concrete Slabs, honoring Professor Emeritus Neil Hawkins*, accepted for publication, July 2016.
3. Hueste, M.D., J.B. Mander, *R. Baie, *A.S. Parkar, *A. Parchure, *J.M. Prouty, and *T. Sarremejane (2016), "Behavior and Strength of Splices for Continuous Prestressed Concrete Girder Bridges," *ACI Special Publication SP-311 - James K. Wight: A Tribute from his Students and Colleagues*, American Concrete Institute (ACI), SP-311-9, 1-20.
4. *Jiang, D., T. Terzioglu, M.D. Hueste, J.B. Mander, and G.T. Fry (2016), "Experimental Study of an In-service Spread Slab Beam Bridge," *Engineering Structures*, 127, 525-535.
5. *Terzioglu, T., *D. Jiang, M.D. Hueste, and J.B. Mander (2016), "Design and Constructability of Spread Slab Beam Bridges," *ASCE Journal of Bridge Engineering*, 21(12), 04016089.
6. *Terzioglu, T., *D. Jiang, M.D. Hueste, J.B. Mander, and G.T. Fry (2016), "Experimental Investigation of a Full-Scale Spread Slab Beam Bridge," *ASCE Journal of Bridge Engineering*, 21(11), 04016082.
7. *Kim, Y. H., M.D. Hueste, and D. Trejo (2015), "Flexural Behavior of High-Early-Strength Self-Consolidating Concrete Pretensioned Girders: Experimental Evaluation," *ASCE Journal of Bridge Engineering*, 20(2).
8. *Bai, J.-W., M.D. Hueste, and P. Gardoni (2015), "Seismic Vulnerability Assessment of Tilt-up Concrete Structures," *Structure and Infrastructure Engineering: Maintenance, Management, Life-Cycle Design and Performance*, 11(9), 1131-1146.
9. *Bai, J.-W., M.D. Hueste, and P. Gardoni (2014), "Case Study: Scenario-Based Seismic Loss Estimation for Concrete Buildings in Mid-America," Technical Note, *Earthquake Spectra*, 30(4), 1585-1599.
10. *Pillai, R., D. Trejo, P. Gardoni, M.D. Hueste, and K. Reinschmidt (2014), "Time-variant Flexural Reliability of Post-tensioned, Segmental Concrete Bridges Exposed to Corrosive Environments," *ASCE Journal of Structural Engineering*, 140, Special Issue: Computational Simulation in Structural Engineering.
11. *Pillai, R.G., K.F. Reinschmidt, D. Trejo, P. Gardoni, and M.D. Hueste (2014), "Predicting Residual Tensile Strength of 7-Wire Strands using that of Single Wires Exposed to Chloride Environments," *ASCE Journal of Materials in Civil Engineering*, 26(8).
12. *Kim, Y., D. Trejo, and M. Hueste (2012), "Bond Performance in Self-Consolidating Concrete Pretensioned Girders," *ACI Structural Journal*, 109(6), 755-766.
13. *Kim, Y., D. Trejo, H. Atahan, and M. Hueste (2012), "Mechanical Property Prediction for High Early Strength Self-Consolidating Concrete," *ASCE Journal of Materials in Civil Engineering*, 24(12), 1501-1512.
14. Duan, H. and M.D. Hueste (2012), "Seismic Performance of a Reinforced Concrete Frame Building in China," *Engineering Structures*, 41, 77-89.
15. *Bai, J.-W., P. Gardoni, and M.D. Hueste (2011), "Story-specific Demand Models and Seismic Fragility Estimates for Multi-story Buildings," *Structural Safety*, 33 (2011), 96-107.

16. *Kim, Y.-H., D. Trejo, M.D. Hueste, and J.J. Kim (2011), "Experimental Study on Creep and Durability of High Early Strength Self-Consolidating Concrete for Precast Elements," *ACI Materials Journal*, 108(2), 128-138.
17. *Kim, Y.-H., D. Trejo, and M.D. Hueste (2010), "Characterization of High Early-Strength Self-Consolidating Concrete for Design of Pretensioned Bridge Elements," *Transportation Research Record: Journal of the Transportation Research Board*, No. 2200, Bridge Engineering 2010, 1, 135-142.
18. *Pillai, R.G., P. Gardoni, D. Trejo, M.D. Hueste, K.F. Reinschmidt (2010), "Probabilistic Models for the Tensile Strength of Corroding Strands in Post-tensioned Segmental Concrete Bridges," *ASCE Journal of Materials in Civil Engineering*, 22(10), 967-977.
19. *Pillai, R.G., M.D. Hueste, P. Gardoni, D. Trejo, K.F. Reinschmidt, (2010), "Time-variant Service Reliability of Post-tensioned, Segmental, Concrete Bridges Exposed to Corrosive Environments," *Engineering Structures*, 32(9), 2596-2605.
20. *Kim, Y.-H., M.D. Hueste, D. Trejo, and D.B.H. Cline (2010), "Shear Characteristics and Design for High-Strength Self-Consolidating Concrete Prestressed Girders," *ASCE Journal of Structural Engineering*, 136(8), 989-1000.
21. *Kueht, E. and M.D. Hueste (2009), "Impact of Code Requirements in the Central U.S.: Seismic Performance Assessment of a Reinforced Concrete Building," *ASCE Journal of Structural Engineering*, 135(4), 404-413.
22. Trejo, D., *R.G. Pillai, M.D. Hueste, K.F. Reinschmidt, and P. Gardoni (2009), "Parameters Influencing Corrosion and Tension Capacity of Post-Tensioning Strands," *ACI Materials Journal*, 106(2), 144-153.
23. Gardoni, P., *R.G. Pillai, M.D. Hueste, K.F. Reinschmidt, and D. Trejo (2009), "Probabilistic Capacity Models for Post-Tensioning Strands Calibrated using Laboratory Results," *ASCE Journal of Engineering Mechanics*, 135(9), 906-916.
24. *Bai, J.-W., M.D. Hueste, and P. Gardoni (2009), "Probabilistic Assessment of Structural Damage due to Earthquakes for Buildings in Mid-America," *ASCE Journal of Structural Engineering*, 135(10), 1155-1163.
25. Trejo, D., *F. Moutassem, M.D. Hueste, C. Halmen, and D.B.H. Cline (2007), "Influence of Environmental Exposure Conditions on Mechanical Properties of High Strength Concrete," *ACI Materials Journal*, 104(6), 303-312.
26. Atahan, H.N., D. Trejo, and M.D. Hueste (2007), "Applicability of Standard Equations for Predicting the Mechanical Properties of SCC," *SP-247 - Self-Consolidating Concrete for Precast Prestressed Applications*, American Concrete Institute, 17-32.
27. *Kim, Y.H., D. Trejo, and M.D. Hueste (2007), "Shear Characteristics of Self-Consolidating Concrete for Precast Prestressed Concrete Members," *SP-247 - Self-Consolidating Concrete for Precast Prestressed Applications*, American Concrete Institute, 53-66.
28. Hueste, M.D., J. Browning, A. Lepage, and J.W. Wallace (2007), "Seismic Design Criteria for Slab-Column Connections," *ACI Structural Journal*, 104(4), 448-458.
29. Hueste, M.D. and *J.-W. Bai (2007), "Seismic Retrofit of a Reinforced Concrete Flat-Slab Structure: Part I – Seismic Performance Evaluation," *Engineering Structures*, 29(6), 1165-1177.
30. Hueste, M.D. and *J.-W. Bai (2007), "Seismic Retrofit of a Reinforced Concrete Flat-Slab Structure: Part II – Seismic Fragility Analysis," *Engineering Structures*, 29(6), 1178-1188.
31. *Peralta, D.F., J.M. Bracci and M.D. Hueste (2004), "Seismic Behavior of Wood Diaphragms in Pre-1950s Unreinforced Masonry Buildings," *ASCE Journal of Structural Engineering*, 130(12), 2040-2050.

32. Hueste, M.D. and *G.G. Cuadros (2004), "Survey of Current Practice for Design of High Strength Concrete Prestressed Bridge Girders," *Transportation Research Record: Journal of the Transportation Research Board*, No. 1892, Design of Structures 2004, 137-149.
33. *Barron, J.M. and M.D. Hueste (2004), "Diaphragm Effects in Rectangular Reinforced Concrete Buildings," *ACI Structural Journal*, 101(5), 615-624.
34. Hueste, M.D., *P. Chompreda, D. Trejo, D.B.H. Cline and P.B. Keating (2004), "Mechanical Properties of High-Strength Concrete for Prestressed Members," *ACI Structural Journal*, 101(4), 457-465.
35. *Young, B.S., J.M. Bracci, P.B. Keating and M.D. Hueste (2002), "Cracking in Reinforced Concrete Bent Caps," *ACI Structural Journal*, 99(4), 488-498.
36. Hueste, M.D. and J.K. Wight (1999), "A Nonlinear Punching Shear Failure Model for Interior Slab-Column Connections," *ASCE Journal of Structural Engineering*, 125(9), 997-1008.
37. Hueste, M.D. and J.K. Wight (1997), "Evaluation of a Four-Story Reinforced Concrete Building Damaged During the Northridge Earthquake," *Earthquake Spectra*, 13(3), 387-414.

Discussions in Refereed Journal Publications

1. Fick, D. R., M.D. Hueste, T. Kang, M.E. Kreger, J.M. LaFave, C. French, B.B. Bakir, B. B. (2017), "Discussion of Design of Concrete Slabs for Punching Shear: Controversial Concepts," Paper by A. Ghali, R.B. Gayed, and W. Dilger, *ACI Structural Journal*, 114(3), 787.

Conference and Workshop Publications

1. *Terzioglu, T., M.D. Hueste, and J.B. Mander (2017), "Field Testing and Computational Model Verification for Spread Slab Beam Bridges," *Proceedings*, 39th IABSE Symposium – Engineering the Future, September 2017, Vancouver, Canada.
2. *Terzioglu, T., M.D. Hueste, and J.B. Mander (2017), "Derivation of Live Load Distribution Factors for Spread Slab Beam Bridges," *Proceedings*, PCI Convention and National Bridge Conference 2017, March 2017, Cleveland, OH.
3. *Zhou, Y. and M.D. Hueste (2017), "Review Of Laboratory Test Data For Combined Lateral and Gravity Shear Demands on Interior Slab-Column Connections," *Proceedings*, 16th World Conference on Earthquake Engineering (16WCEE), January 2017, Santiago, Chile.
4. *Baie, R., J.B. Mander, and M.D. Hueste (2016), "Experimental Performance Assessment of Spliced Continuous Prestressed Concrete Girder Bridges," *Proceedings*, 2016 International Bridge Conference, June, National Harbor, MD.
5. *Terzioglu, T., J.B. Mander, and M.D. Hueste (2016), "Early-Age Cracking in Topped Panelized Concrete Decks," *Proceedings*, Structural Faults and Repair Conference, May, Edinburgh, Scotland.
6. *Terzioglu, T., M.D. Hueste, and J.B. Mander (2016), "Experimental Investigation and Modeling of Spread Slab Beams," *Proceedings*, Istanbul Bridge Conference, August, Istanbul, Turkey.
7. Mander, J.B., M.D. Hueste, and *R. Baie (2015), "Design and Behaviour of Spliced Continuous Prestressed Concrete Slab-on-Girder Bridges," *Proceedings*, 16th European Bridge Conference, June, Edinburgh, Scotland.
8. Hueste, M.D., J.B. Mander, *T. Terzioglu, and *D. Jiang (2015), "Design and Behavior of Spread Slab Beam Bridges," *Proceedings*, 16th European Bridge Conference, June, Edinburgh, Scotland.
9. Hueste, M.D., J.B. Mander, *A.S. Parkar, *A. Parchure, *R. Baie (2013), "Prototype Design and Experimental Abstraction for Verifying Spliced Girder Performance of Continuous Prestressed Concrete Bridges," *Proceedings*, 2013 PCI Convention and National Bridge Conference, September, Grapevine, TX.

10. *Bai, J.-W., M.D. Hueste, and P. Gardoni (2013), "Seismic Vulnerability Assessment for Tilt-Up Concrete Buildings in Mid-America," *Proceedings*, 11th International Conference on Structural Safety and Reliability (ICOSSAR 2013), New York, NY.
11. *Parker, A., M. Hueste, and J. Mander (2012), "Continuous Precast, Prestressed Concrete Bridge Systems," *Proceedings*, Transportation Research Board (TRB) 91st Annual Meeting, Washington, D.C.
12. *Bai, J.-W., M. Hueste, and P. Gardoni (2011), "Scenario-based Seismic Loss Estimation for Concrete Buildings in the Central U.S.," *Proceedings*, 11th International Conference on Applications of Statistics and Probability in Civil Engineering (ICASP11), Zurich, Switzerland.
13. Hueste, M.D., T.H.-K. Kang, and I.N. Robertson (2009), "Lateral Drift Limits for Structural Concrete Slab-Column Connections, Including Shear Reinforcement Effects," *Proceedings*, ASCE Structures Congress '09, Austin, TX.
14. *Bai, J.-W., M.D. Hueste, and P. Gardoni (2009), "Seismic Performance and Retrofit for Tilt-up Concrete Buildings in Mid-America," *Proceedings*, ASCE Structures Congress '09, Austin, TX.
15. *Bai, J., P. Gardoni, and M. Hueste (2009), "Story-specific Demand Models and Seismic Fragility Estimates for Low-Rise Buildings," *Safety, Reliability and Risk of Structures, Infrastructures and Engineering Systems, Proceedings*, 10th International Conference on Structural Safety and Reliability (ICOSSAR 2009), Osaka, Japan.
16. *Pillai, R., P. Gardoni, M. Hueste, K. Reinschmidt and D. Trejo (2009), "Flexural Reliability of Corroding Segmental, Post-tensioned Bridges," *Safety, Reliability and Risk of Structures, Infrastructures and Engineering Systems, Proceedings*, 10th International Conference on Structural Safety and Reliability (ICOSSAR 2009), Osaka, Japan.
17. *Bai, J.-W., P. Gardoni, M.D. Hueste (2008), "Probabilistic Assessment of Structural Seismic Damage for Buildings in Mid-America," *Proceedings*, MERCEA'08 International Conference, Messina, Italy.
18. *Kim, Y.H., D. Trejo, and M.D. Hueste (2008), "Flexural Behavior of a Full-Scale Self-Consolidating Concrete Prestressed Girder," *Proceedings*, 2008 PCI-FHWA National Bridge Conference, October, Orlando, Florida.
19. *Kim, Y.H., M.D. Hueste, and D. Trejo (2008), "Structural Behavior of SCC Prestressed Girders," *Proceedings*, SCC 2008: Challenges and Barriers to Application, The Third North American Conference on the Design and Use of Self-Consolidating Concrete, Chicago, Illinois.
20. *Pillai, R.G., P. Gardoni, M. Hueste, K. Reinschmidt, and D. Trejo (2007), "Probabilistic Capacity Models for Corroding Strands in Post-tensioned Bridges with Voided Tendons," *Proceedings*, 10th International Conference on Applications of Statistics and Probability in Civil Engineering (ICASP10), July 31 – August 3, University of Tokyo, Tokyo, Japan.
21. Hueste, M., J. Bracci, P. Gould, and S. Menke (2006), "Development of an Institute for Multi-Disciplinary Graduate Student Education," *Proceedings*, 9th International Conference on Engineering Education, San Juan, Puerto Rico.
22. *Adil, M.S., M.D. Hueste and P.B. Keating (2006), "Impact of AASHTO LRFD Specifications on Design of Prestressed Concrete Bridge Girders," *Proceedings*, 2006 Concrete Bridge Conference: HPC: Build Fast, Build to Last, National Concrete Bridge Council, Reno, Nevada.
23. *Bai, J.-W. and M.D. Hueste (2006), "Seismic Fragility of a Tilt-Up Concrete Building in the Central United States," *Proceedings*, Eighth National Conference on Earthquake Engineering (8NCEE), San Francisco, California.
24. Hueste, M.D., J. Bracci and P. Gould (2006), "Designing an Institute for Collaborative Instruction and Learning," *Proceedings*, Eighth National Conference on Earthquake Engineering (8NCEE), San Francisco, California.

25. *Johnson, C.F., T.R. Slawson, T.K. Cummins, J.L. Davis, L. Beason, and M.D. Hueste (2004), "Concrete Masonry Unit Walls Retrofitted with Fiber Reinforced Elastomeric Systems for Blast Loads," *Proceedings*, 74th Shock and Vibration Conference, San Diego, California.
26. Hueste, M.D. and *J.-W. Bai (2004), "Impact of Retrofit on the Seismic Fragility of a Reinforced Concrete Structure," *Proceedings*, 13th World Conference on Earthquake Engineering (13WCEE), Vancouver, British Columbia.
27. Hueste, M.D. and *G.G. Cuadros (2004), "Survey of Current Practice for Design of High Strength Concrete Prestressed Bridge Girders," *Proceedings*, Transportation Research Board, 83rd Annual Meeting, Washington, D.C.
28. *Johnson, C.F., T.R. Slawson, T.K. Cummins, M.D. Hueste and L. Beason (2003), "Concrete Masonry Unit (CMU) Static and Dynamic Wall Experiments with Elastomeric Retrofits," *Proceedings*, 74th Shock and Vibration Conference, San Diego, California.
29. Hueste, M.D. and *J.-W. Bai (2003), "Predicting the Seismic Performance of a RC Building in the Central U.S.," *Proceedings*, Fifth US-Japan Workshop on Performance-Based Seismic Design Methodology for Concrete Buildings, Hakone, Japan.
30. *Peralta, D.F., M.D. Hueste and J.M. Bracci (2002), "Seismic Performance of Rehabilitated Floor and Roof Diaphragms in Pre-1950's Unreinforced Masonry Buildings," *Proceedings*, Seventh National Conference on Earthquake Engineering (7NCEE), Boston, Massachusetts.
31. Hueste, M.D., C. Aubeny, J.-L. Briaud, Y.-S. Kim and J.M. Roesset (2002), "Dynamic Stiffness and Damping Characteristics for Micro-Pile Retrofitted Foundations," *Proceedings*, Seventh National Conference on Earthquake Engineering (7NCEE), Boston, Massachusetts.
32. Bracci, J.M., M.D. Hueste and J.M. Roesset (2001), "Requirements for Performance-Based Design of Buildings," *Proceedings*, Third International Conference on Earthquake Resistant Engineering Structures (ERES 2001), Malaga, Spain.
33. Hueste, M.D., J.-L. Briaud, *S.Y. Gameros, *J.L. Buchanan and *V.F. Fratinaro (2001), "Dynamic Behavior of Micro-Pile Retrofitted Foundations for Non-Liquefied and Liquefied Soil Conditions," *Proceedings*, Transportation Research Board, 80th Annual Meeting, Washington, D.C.
34. Hueste, M.D. and J.K. Wight (1997), "Evaluation of a Reinforced Concrete Building Damaged During the Northridge Earthquake," *Proceedings*, Northridge Earthquake Research Conference, California Universities for Research in Earthquake Engineering (CUREe), Los Angeles, California.

Edited or Co-Edited Volumes

1. *ACI Special Publication SP-311 - James K. Wight: A Tribute from his Students and Colleagues*, American Concrete Institute (ACI), Editors: Gustavo J. Parra-Montesinos and Mary Beth D. Hueste, 2016.

Reports

1. Hueste, M.D., J.B. Mander, *R. Baie, *A.S. Parkar, *A. Parchure, *J.M. Prouty, and *T. Sarremejane (2016), "Continuous Prestressed Concrete Girder Bridges Volume 2: Analysis, Testing, and Recommendations," *Research Report No. FHWA/TX-15/0-6651-2*, Texas A&M Transportation Institute and Texas Department of Transportation, 270 pages.
2. Hueste, M.D., J.B. Mander, *T. Terzioglu, *D. Jiang, and *J. Petersen-Gauthier (2015), "Spread Prestressed Concrete Slab Beam Bridges," *Research Report No. FHWA/TX-15/0-6722-1*, Texas A&M Transportation Institute and Texas Department of Transportation, 406 pages.

3. Hueste, M.D., *E. Puls, S. Hurlebaus, I. Damjanovic, *K. McCoy, *L. Ortiz, and J. Crawford (2013), "A Framework for Historic Bridge Preservation in Tarrant County," *Research Report No. TX-13/409139-1*, Texas A&M Transportation Institute and Texas Department of Transportation, 300 pages.
4. Hueste, M.D., J.B. Mander, and *A.S. Parkar (2012), "Continuous Prestressed Concrete Girder Bridges Volume 1: Literature Review and Preliminary Designs," *Research Report No. 0-6651-1*, Texas Transportation Institute and Texas Department of Transportation, 176 pages.
5. Trejo, D., M.D. Hueste, P. Gardoni, *R.G. Pillai, K. Reinschmidt, *S.-B. Im, *S. Kataria, S. Hurlebaus, *M. Gamble, and *T.T. Ngo (2009), "Effect of Voids in Grouted, Post-Tensioned Concrete Bridge Construction: Volume 1 - Electrochemical Testing and Reliability Assessment," *Research Report No. 0-4588-1 Vol. 1*, Texas Transportation Institute and Texas Department of Transportation, 366 pages.
6. Trejo, D., M.D. Hueste, P. Gardoni, *R.G. Pillai, K. Reinschmidt, *S.-B. Im, *S. Kataria, S. Hurlebaus, *M. Gamble, and *T.T. Ngo (2009), "Effect of Voids in Grouted, Post-Tensioned, Concrete Bridge Construction: Volume 2 - Inspection, Repair, Materials, and Risks," *Research Report No. 0-4588-1 Vol. 2*, Texas Transportation Institute and Texas Department of Transportation, 342 pages.
7. Trejo, D., *S.-B. Im, *R.G. Pillai, M.D. Hueste, P. Gardoni, S. Hurlebaus, and *M. Gamble (2009), "Effect of Voids in Grouted, Post-Tensioned, Concrete Bridge Construction: Inspection and Repair Manual for External Tendons in Segmental, Post-Tensioned Bridges," *Research Report No. 0-4588-2*, Texas Transportation Institute and Texas Department of Transportation, 62 pages.
8. Trejo, D., M.D. Hueste, *Y.H. Kim, H. Atahan (2008), "Characterization of Self-Consolidating Concrete for Design of Precast, Prestressed Bridge Girders," *Research Report 0-5134-2*, Texas Transportation Institute and Texas Department of Transportation, 384 pages.
9. *Grubbs, A.J., M.D. Hueste, and J.M. Bracci (2007), "Seismic Rehabilitation of Wood Diaphragms in Unreinforced Masonry Buildings," Mid-America Earthquake Center, University of Illinois at Urbana-Champaign, 186 pages.
10. *Bai, J.-W. and M.D. Hueste (2007), "Deterministic and Probabilistic Evaluation of Retrofit Alternatives for a Five-Story Flat-Slab RC Building," Mid-America Earthquake Center, University of Illinois at Urbana-Champaign, 284 pages.
11. Hueste, M.D., *M.S. Adil, *M. Adnan and P.B. Keating (2006), "Impact of LRFD Specifications on Design of Texas Bridges, Volume 1: Parametric Study," *Research Report 0-4751-1 Vol. 1*, Texas Transportation Institute and Texas Department of Transportation, 390 pages.
12. Hueste, M.D., *M.S. Adil, *M. Adnan and P.B. Keating (2006), "Impact of LRFD Specifications on Design of Texas Bridges, Volume 2: Prestressed Concrete Bridge Girder Design Examples," *Research Report 0-4751-1 Vol. 2*, Texas Transportation Institute and Texas Department of Transportation, 360 pages.
13. Bracci, J.M., *L.A. Brown, M.D. Hueste and J.D. Murff (2003), "Assessment of Seismic Risk for Subsea Production Systems in the Gulf of Mexico," *Project Report*, Offshore Technology Research Center, Texas A&M University, College Station, Texas, 152 pages.
14. Hueste, M.D., *P. Chomprea, D. Trejo, D.B.H. Cline and P.B. Keating (2003), "Mechanical Properties of High Strength Concrete Produced for Prestressed Bridge Girders," *Research Report 0-2101-2*, Texas Transportation Institute and Texas Department of Transportation, 326 pages.
15. Hueste, M. D. and *G.G. Cuadros (2003), "Flexural Design of High Strength Concrete Prestressed Bridge Girders – Review of Current Practice and Parametric Study," *Research Report 0-2101-3*, Texas Transportation Institute and Texas Department of Transportation, 280 pages.

16. Hueste, M.D., *F. Moutassem, D. Trejo and D.B.H. Cline (2003), "Impact of Field Exposure Conditions on High Strength Concrete Produced for Prestressed Bridge Girders," *Research Report 0-2101-4*, Texas Transportation Institute and Texas Department of Transportation, 194 pages.
17. *Peralta, D.F., J.M. Bracci and M.D. Hueste (2003), "Seismic Performance of Rehabilitated Wood Diaphragms," Mid-America Earthquake Center, University of Illinois at Urbana-Champaign, CD Release 03-01, 290 pages.
18. Bracci, J.M., P.B. Keating and M.D. Hueste (2002), "Cracking in RC Bent Caps," *Research Report 1851-1*, Texas Transportation Institute and Texas Dept. of Transportation, 270 pages.
19. *Jimenez, L.M. and M.D. Hueste (1999), "Seismic Rehabilitation of a Reinforced Concrete Flat-Slab Structure," *Technical Report CBDC-99-03*, Walter P. Moore Center for Building Design and Construction, Department of Civil Engineering, Texas A&M University, 247 pages.

Presentations

Reverse chronological order (+ indicates presenter, * indicates past or current student)

1. *Terzioglu, T., +M.D. Hueste, and J.B. Mander (2017), "Live Load Distribution Factors for Spread Slab Beam Bridges," Transportation Research Board (TRB) 96th Annual Meeting, January, Washington, D.C.
2. *Zhou, Y. and +M.D. Hueste (2017), "Review of Laboratory Test Data for Combined Lateral and Gravity Shear Demands on Interior Slab-Column Connections," 16th World Conference on Earthquake Engineering (16WCEE), January, Santiago, Chile.
3. **Terzioglu, T., M.D. Hueste, and J.B. Mander (2017), "Derivation of Live Load Distribution Factors for Spread Slab Beam Bridges," PCI Convention and National Bridge Conference 2017, March, Cleveland, OH.
4. *Zhou, Y. and +M.D. Hueste (2016), "Review of Test Data for Interior Slab-Column Connections with Moment Transfer," Joint ACI-*fib* International Symposium on Punching Shear of Structural Concrete Slabs - Honoring Neil Hawkins, American Concrete Institute (ACI) Fall 2016 Convention, October 25, Philadelphia, PA.
5. +Hueste, M.D., *E. Puls, S. Hurlbaeus, I. Damnjanovic, and J. Crawford (2016), "Framework for Historic Preservation," Structures and Hydraulics Session, 90th Annual TxDOT Transportation Short Course, October 12, College Station, TX.
6. +Hueste, M.D. and Y. Zhou (2016), "Interior Slab-Column Connections under Earthquake Loading: Test Data, Observations, and Design Implications," August 25, invited seminar, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland.
7. *Baie, R., J.B. Mander, and M.D. Hueste (2016), "Experimental Performance Assessment of Spliced Continuous Prestressed Concrete Girder Bridges," The International Bridge Conference, June, National Harbor, MD.
8. *Terzioglu, T., +J.B. Mander, and M.D. Hueste (2016), "Early-Age Cracking in Topped Panelized Concrete Decks," Structural Faults and Repair Conference, May, Edinburgh, Scotland.
9. +Hueste, M.D. (2016), "Field Investigation of Spread Slab Beam Bridge Systems and Development of Design Parameters," 2016 SPTC Seminar Series, Southern Plains Transportation Center, University of Oklahoma and Oklahoma Department of Transportation, April 6.
10. +Hueste, M.D. (2016), "Slab-column Connection Design under Seismic Action: Research and US Practice," Joint *fib*-European Code (EC) meeting for Working Party (WP) 2.2.3 Meeting, January 28, Copenhagen, Denmark.

11. +Hueste, M.D. and J.B. Mander (2015), *T. Terzioglu, *D. Jiang, and *R. Baie, "Investigation of Short- and Medium-Span Prestressed Concrete Bridge Design Solutions," August 7, Seoul National University, Seoul, South Korea.
12. +Hueste, M.D., +J.B. Mander, *T. Terzioglu, *D. Jiang, and *R. Baie (2015), "Prestressed Concrete Bridges – Solutions for Varying Span Lengths," June 26, Cambridge University, Cambridge, England.
13. +Hueste, M.D., J.B. Mander, and *R. Baie (2015), "Design and Behavior of Spliced Continuous Prestressed Concrete Slab-on-Girder Bridges," August 6, Ton Duc Thang University, Ho Chi Minh City, Vietnam.
14. +Hueste, M.D. and J.B. Mander, *T. Terzioglu, *D. Jiang, and *R. Baie (2015), "Prestressed Concrete Bridges – Solutions for Varying Span Lengths," July 30, National University of Civil Engineering, Hanoi, Vietnam.
15. +Hueste, M.D., *J.-W. Bai, and P. Gardoni (2015), "Seismic Fragility Analysis and Loss Estimation for Concrete Structures," July 30, Vietnam Institute for Building Science and Technology (IBST), Hanoi, Vietnam.
16. +Mander, J.B., M.D. Hueste, and *R. Baie (2015), "Design and Behaviour of Spliced Continuous Prestressed Concrete Slab-on-Girder Bridges," *Proceedings*, 16th European Bridge Conference, June, Edinburgh, Scotland.
17. +Hueste, M.D., J.B. Mander, *T. Terzioglu, and *D. Jiang (2015), "Design and Behavior of Spread Slab Beam Bridges," *Proceedings*, 16th European Bridge Conference, June, Edinburgh, Scotland.
18. +Hueste, M.D. (2015), "Overview of ACI-ASCE Committee 352 Joints and Connections in Monolithic Concrete Structures," Joint *fib*-European Code (EC) meeting for Working Party (WP) 2.2.3 Meeting, March, Florence, Italy.
19. +Hueste, M.D., J.B. Mander, *R. Baie, *A.S. Parkar, *A. Parchure, *J.M. Prouty, and *T. Sarremejane (2014), "Behavior and Strength of Splices for Continuous Prestressed Concrete Girder Bridges," American Concrete Institute (ACI) Fall 2014 Convention, Session for James K. Wight: A Tribute from his Students and Colleagues, October, Washington, DC.
20. Hueste, M.D., J.B. Mander, *A.S. Parkar, *A. Parchure, *R. Baie (2013), "Prototype Design and Experimental Abstraction for Verifying Spliced Girder Performance of Continuous Prestressed Concrete Bridges," 2013 PCI Convention and National Bridge Conference, September, Grapevine, TX.
21. *Bai, J.-W., M.D. Hueste, and P. Gardoni (2013), "Seismic Vulnerability Assessment for Tilt-Up Concrete Buildings in Mid-America," 11th International Conference on Structural Safety and Reliability (ICOSSAR 2013), New York, NY.
22. *Parkar, A., M. Hueste, and J. Mander (2012), "Continuous Precast, Prestressed Concrete Bridge Systems," Transportation Research Board (TRB) 91st Annual Meeting, Washington, D.C.
23. *Bai, J.-W., M. Hueste, and P. Gardoni (2011), "Scenario-based Seismic Loss Estimation for Concrete Buildings in the Central U.S.," 11th International Conference on Applications of Statistics and Probability in Civil Engineering (ICASP11), Zurich, Switzerland.
24. +Hueste, M.D., T.H-K. Kang, and I.N. Robertson (2009), "Lateral Drift Limits for Structural Concrete Slab-Column Connections, Including Shear Reinforcement Effects," ASCE Structures Congress '09, Austin, TX.

25. *Bai, J.-W., M.D. Hueste, and P. Gardoni (2009), "Seismic Performance and Retrofit for Tilt-up Concrete Buildings in Mid-America," ASCE Structures Congress '09, Austin, TX.
26. *Bai, J., *P. Gardoni, and M. Hueste (2009), "Story-specific Demand Models and Seismic Fragility Estimates for Low-Rise Buildings," 10th International Conference on Structural Safety and Reliability (ICOSSAR 2009), Osaka, Japan.
27. *Pillai, R., P. Gardoni, *M. Hueste, K. Reinschmidt and D. Trejo (2009), "Flexural Reliability of Corroding Segmental, Post-tensioned Bridges," 10th International Conference on Structural Safety and Reliability (ICOSSAR 2009), Osaka, Japan.
28. *Bai, J.-W., P. Gardoni, *M.D. Hueste (2008), "Probabilistic Assessment of Structural Seismic Damage for Buildings in Mid-America," MERCEA'08 International Conference, Messina, Italy.
29. *Kim, Y.H., D. Trejo, and M.D. Hueste (2008), "Flexural Behavior of a Full-Scale Self-Consolidating Concrete Prestressed Girder," 2008 PCI-FHWA National Bridge Conference, October, Orlando, Florida.
30. *Kim, Y.H., M.D. Hueste, and D. Trejo (2008), "Structural Behavior of SCC Prestressed Girders," SCC 2008: Challenges and Barriers to Application, The Third North American Conference on the Design and Use of Self-Consolidating Concrete, Chicago, Illinois.
31. *Pillai, R.G., P. Gardoni, M. Hueste, K. Reinschmidt, and D. Trejo (2007), "Probabilistic Capacity Models for Corroding Strands in Post-tensioned Bridges with Voided Tendons," 10th International Conference on Applications of Statistics and Probability in Civil Engineering (ICASP10), July 31 – August 3, University of Tokyo, Tokyo, Japan.
32. Hueste, M., J. Bracci, *P. Gould, and S. Menke (2006), "Development of an Institute for Multi-Disciplinary Graduate Student Education," 9th International Conference on Engineering Education, San Juan, Puerto Rico.
33. *Adil, M.S., M.D. Hueste and P.B. Keating (2006), "Impact of AASHTO LRFD Specifications on Design of Prestressed Concrete Bridge Girders," 2006 Concrete Bridge Conference: HPC: Build Fast, Build to Last, National Concrete Bridge Council, Reno, Nevada.
34. *Bai, J.-W. and M.D. Hueste (2006), "Seismic Fragility of a Tilt-Up Concrete Building in the Central United States," Eighth National Conference on Earthquake Engineering (8NCEE), San Francisco, California.
35. Hueste, M.D., J. Bracci and P. Gould (2006), "Designing an Institute for Collaborative Instruction and Learning," Eighth National Conference on Earthquake Engineering (8NCEE), San Francisco, California.
36. *Johnson, C.F., T.R. Slawson, T.K. Cummins, J.L. Davis, L. Beason, and M.D. Hueste (2004), "Concrete Masonry Unit Walls Retrofitted with Fiber Reinforced Elastomeric Systems for Blast Loads," 74th Shock and Vibration Conference, San Diego, California.
37. *Hueste, M.D. and *J.-W. Bai (2004), "Impact of Retrofit on the Seismic Fragility of a Reinforced Concrete Structure," 13th World Conference on Earthquake Engineering (13WCEE), Vancouver, British Columbia.
38. *Hueste, M.D. and *G.G. Cuadros (2004), "Survey of Current Practice for Design of High Strength Concrete Prestressed Bridge Girders," Transportation Research Board, 83rd Annual Meeting, Washington, D.C.

39. *Johnson, C.F., T.R. Slawson, T.K. Cummins, M.D. Hueste and L. Beason (2003), "Concrete Masonry Unit (CMU) Static and Dynamic Wall Experiments with Elastomeric Retrofits," 74th Shock and Vibration Conference, San Diego, California.
40. +Hueste, M.D. and *J.-W. Bai (2003), "Predicting the Seismic Performance of a RC Building in the Central U.S.," Fifth US-Japan Workshop on Performance-Based Seismic Design Methodology for Concrete Buildings, Hakone, Japan.
41. *Peralta, D.F., M.D. Hueste and J.M. Bracci (2002), "Seismic Performance of Rehabilitated Floor and Roof Diaphragms in Pre-1950's Unreinforced Masonry Buildings," Seventh National Conference on Earthquake Engineering (7NCEE), Boston, Massachusetts.
42. Hueste, M.D., C. Aubeny, J.-L. Briaud, Y.-S. Kim and J.M. Roesset (2002), "Dynamic Stiffness and Damping Characteristics for Micro-Pile Retrofitted Foundations," Seventh National Conference on Earthquake Engineering (7NCEE), Boston, Massachusetts.
43. +Bracci, J.M., M.D. Hueste and J.M. Roesset (2001), "Requirements for Performance-Based Design of Buildings," Third International Conference on Earthquake Resistant Engineering Structures (ERES 2001), Malaga, Spain.
44. Hueste, M.D., J.-L. Briaud, *S.Y. Gamos, *J.L. Buchanan and *V.F. Fratinaro (2001), "Dynamic Behavior of Micro-Pile Retrofitted Foundations for Non-Liquefied and Liquefied Soil Conditions," Transportation Research Board, 80th Annual Meeting, Washington, D.C.
45. Hueste, M.D. and +J.K. Wight (1997), "Evaluation of a Reinforced Concrete Building Damaged During the Northridge Earthquake," Northridge Earthquake Research Conference, California Universities for Research in Earthquake Engineering (CUREe), Los Angeles, California.

Professional Affiliations

- American Concrete Institute (ACI), Member 1995-present, Fellow of the Institute 2011-present.
- American Society of Civil Engineers (ASCE), Member, 1993-present
- Earthquake Engineering Research Institute (EERI), 1995-present
- The *fib* (International Federation for Structural Concrete) Working Party 2.2.3 focused on shear, punching, and torsion in concrete structures, Friend, 2015-present.
- Historic Bridge Alliance, Member, 2011 – present
- Structural Engineers Association of Texas (SEAoT), Structural Engineering Educator Member, 1998–present

Professional Service

- ACI Subcommittee 318-J (Joints and Connections), Voting Member, 2014-present
- ACI-ASCE Committee 352 (Joints and Connections in Monolithic Concrete Structures); Chair, March 2009-2016; Voting Member, 2004-present
- ACI-ASCE Committee 352-Task Group 2 (TG2) (Beam-Column Joints & Connections), Chair, 2015-2016; Member 2015-present
- ACI Committee 374 (Performance-Based Seismic Design of Concrete Buildings), Voting Member, 1999-present
- ACI Committee 375 (Performance-Based Design of Concrete Buildings for Wind Loads), Associate Member, 2000-present
- ACI Board of Nominations, 2013 and 2015
- ACI Committee on Awards for Papers, Voting Member, 2015

- ACI Chester Paul Siess Award for Excellence in Structural Research, Voting Member, 2014; Chair, 2015
- ACI Education Activities Committee (EAC), Voting Member, 2012-2015
- ACI Reinforced Concrete Research Council, Secretary, 1999 -2001
- ASCE, Member, 2009 Structures Congress Steering Committee, 2008-2009
- EERI, Member, Ad Hoc Committee on Seismic Safety of Schools, 2010-present
- *Engineering Structures*, Member, Editorial Board, 2008 – present
- NSF Mid-America Earthquake Center Leadership Team, TAMU Representative, 2001 – 2008
- SEAoT - Houston/Gulf Coast Chapter, Student Affairs Committee, Member, 1998 – 2001
- Texas Department of Transportation Research Management Committee 5, Technical Activities Panel, Member, 2003 – 2012

University Service

University

- Member, Texas A&M Transportation Institute (TTI) Leadership Team, 2014 – present
- Member, Texas A&M Transportation Institute (TTI) Compliance Committee, 2016 – present
- Women’s Faculty Network Executive Committee, Texas A&M University, College of Engineering Representative, 2010 – 2014 (Chair of Awards Committee, 2013 – 2014).
- Women’s Leadership Forum, Texas A&M University, Member, Planning Committee, 2013.

College

- Member, College of Engineering Honors and Awards Committee, 2015 – 2016
- Member, Architectural Engineering planning committee, 2013 – 2015
- Member, Center for Infrastructure Renewal (CIR) Planning Committee, 2012 – 2016

Department

- Coordinator, Civil Engineering Women Student Mentoring Group, Faculty Steering Committee, 2004 – present
- Member, Promotion and Tenure Committee, 2005 – present
- Peer Review of Teaching Committees for individual assistant professors; Chair – 2005, 2006, 2007, 2008, 2009; Member – 2008, 2010, 2013, 2015, 2017
- Member, Structures Faculty Search Committee, 2016 – 2017
- Member, Structures Faculty Search Committee, 2015 – 2016
- Member, CE Faculty Review Criteria Committee, 2016
- Member, CE/TTI Collaboration Team, 2013 – 2015
- Graduate Teaching Fellow Mentor; Lorena Garcia Cucional, 2014 – 2015; Parisa Khodabakhshi, 2015 – 2016; Graduate Teaching Academy organized by Center for Teaching Excellence, Texas A&M University
- Member, CE Strategic Planning Committee, 2013
- Chair, Sustainability Faculty Search Committee, 2011
- Chair, Search Committee for Faculty Member in Structural Engineering, 2011 – 2012
- Member, Civil Engineering Department Head Search Committee, 2009 – 2010
- Chair, Search Committee for Faculty Member in Construction Engineering / Design and Construction Integration, 2008 – 2009
- Member, Search Committee for Faculty Member in Construction Engineering and Management, 2005 – 2006
- Chair, Task Force on the Graduate Experience, 2005 – 2006
- Graduate Advisor, Structural Engineering Graduate Program, 2003 – 2004

Texas A&M Transportation Institute (TTI)

- Member, TTI Leadership Team, 2014 – present
- Co-Chair, Structures and Hydraulics Session, TxDOT Annual Short Course, Texas A&M University, 2016, 2017
- Member, TTI Compliance Committee, 2016 – present

Diversity Initiatives

- Roadmap Workshop for a Successful Academic Career 2017, Panel Member for Session, “The Many Paths to Success,” March 7, 2017
- 2013 Women’s Leadership Forum, Texas A&M University, planning committee member
- Department Mini-Grant Subcommittee, ADVANCE Center for Women Faculty, Texas A&M University, Sponsored by the National Science Foundation, 2011–2012
- Women’s Faculty Network Executive Committee, Texas A&M University, College of Engineering Representative, 2010 – 2014 (Chair of Awards Committee, 2013–2014)
- Texas Transportation Institute (TTI) Diversity Council, member, 2010–present
- Civil Engineering Women Student Mentoring Group, Faculty Steering Committee and Founding Member, Texas A&M University, 2004–present
- Diversity Coordinator for Mid-America Earthquake Center (an NSF-sponsored Engineering Research Center headquartered at the University of Illinois), 2004–2008

Recent International Activities

2017

- ACI Task Group on Vietnam, ACI Detroit Convention, March 2017
- Presented “Review of Laboratory Test Data for Combined Lateral and Gravity Shear Demands on Interior Slab-Column Connections,” 16th World Conference on Earthquake Engineering (16WCEE), January, Santiago, Chile.

2016

- Attended Joint *fib*-European Code (EC) meeting for Working Party (WP) 2.2.3 focused on shear, punching, and torsion in concrete structures; held in Copenhagen, Denmark in January 2016 (presented “Slab-column Connection Design under Seismic Action: Research and US Practice”).
- EPFL, Lausanne, Switzerland – served as external member of PhD thesis committee, provided a seminar presentation “Interior Slab-Column Connections under Earthquake Loading: Test Data, Observations, and Design Implications”

2015

- Attended Joint *fib*-European Code (EC) meeting for Working Party (WP) 2.2.3 focused on shear, punching, and torsion in concrete structures; held in Florence, Italy in March 2015 (presented “Overview of ACI-ASCE Committee 352 Joints and Connections in Monolithic Concrete Structures”).
- Presented “Design and Behavior of Spread Slab Beam Bridges,” 16th European Bridge Conference, Edinburgh, Scotland, June 2015.
- *Cambridge University*, Cambridge, England, June 26, 2015. Visited with faculty and presented “Prestressed Concrete Bridges – Solutions for Varying Span Lengths.”
- *Imperial College*, London, England, June 29, 2015. Visited with faculty and provided an informal presentation of recent research on spliced prestressed bridge girders.

- *Vietnam Education Foundation (VEF) Annual Interview Mission*, Team Member, July 26 – August 6, 2015. The objective of the VEF mission was to select Vietnamese students for graduate and post-graduate study in STEMM fields (STEM + Medicine) at universities in the United States. The mission included six days of interviews (three days in Hanoi and three days in Ho Chi Minh City). In addition, there were opportunities to visit universities in Vietnam and to meet the U.S. Ambassador to Vietnam.
- *National University of Civil Engineering*, Hanoi, Vietnam, July 30, 2015. Visited with faculty and presented “Prestressed Concrete Bridges – Solutions for Varying Span Lengths.”
- *Vietnam Institute for Building Science and Technology (IBST)*, Hanoi, Vietnam, July 30, 2015. Visited with directors and researchers, discussed Vietnamese interest in adoption of U.S. codes in Vietnam, and presented “Seismic Fragility Analysis and Loss Estimation for Concrete Structures.”
- *Ton Duc Thang University*, Ho Chi Minh City, Vietnam, August 6, 2015. Visited with faculty and presented “Investigation of Short- and Medium-Span Prestressed Concrete Bridge Design Solutions.”
- Visited with Vice Dean of Faculty of Transportation Engineering, *Ho Chi Minh City University of Transport*, Ho Chi Minh City, Vietnam, August 6, 2015. Provided an informal presentation of recent research on spread slab beam bridges and discussed potential applications in Vietnam.
- *Seoul National University*, Seoul, South Korea, August 7, 2015. Visited with faculty and presented “Investigation of Short- and Medium-Span Prestressed Concrete Bridge Design Solutions.”
- Attended Joint *fib-European Code (EC)* meeting for Working Party (WP) 2.2.3 focused on shear, punching, and torsion in concrete structures; held in Stockholm, Sweden in September 2015.

Mentored Students, Postgraduate Scholars, and Graduate Advisors

Doctoral Students (2 current, 10 completed)

Chair (or Primary Co-Chair) of Committee

1. Husain Abbas, *Seismic Performance of Reinforced Concrete Buildings with High Strength Materials*, in progress.
2. Yan Zhou, *Performance of Two-Way Slab-Column Systems under Seismic Loading*, in progress.
3. Tevfik Terzioglu, Co-Chair: Dr. J. Mander, *Behavior and Design of Spread Prestressed Concrete Slab Beam Bridges*, December 2015 [Post-Doctoral Research Associate with the Texas A&M Transportation Institute and Assistant Lecturer in Civil Engineering].
4. Mahmood Etehad, Co-Chair: Dr. S. Hurlbaas, *Analysis of Particle Size and Interface Effects on the Strength and Ductility of Advanced High Strength Steels*, May 2013 [Currently pursuing a PhD in Mathematics at Texas A&M University].
5. Carol Johnson, Ph.D., Co-Chair: Dr. L. Beason, *Enhanced Blast Resistance using Engineered Structural Retrofit Systems*, December 2013 [Research Structural Engineer and Blast Load Simulator Facility Director at U.S. Army Engineer Research and Development Center, Vicksburg, MS].
6. Jong-Wha Bai, Ph.D., Co-Chair: Dr. P. Gardoni, *Seismic Fragility and Loss Estimation for Concrete Structures*, December 2011, recipient of 2006-2007 National PERISHIP Award (Dissertation Fellowships in Hazards, Risk, and Disasters), awarded by the Natural Hazards Center at the University of Colorado at Boulder and the Public Entity Risk Institute with support from the National Science Foundation and Swiss Re, [Department Chair and Associate Professor, Department of Civil Engineering, California Baptist University (CBU), Riverside, California, joined faculty at CBU in 2010].

7. Young-Hoon Kim, Ph.D., Co-Chair: Dr. D. Trejo, *Mechanical and Time-Dependent Properties of Self-Consolidating Concrete for Precast Structural Applications*, December 2008 [Assistant Professor, School of Civil and Construction Engineering, University of Louisville, Louisville, Kentucky, 2011- present].

Co-Chair of Committee

8. Reza Baie, Chair: Dr. J. Mander, *In-Span Splicing for Continuous Prestressed Concrete Bridges*, May 2016 [currently a practicing engineer with Modjeski and Masters, Denver, Colorado].
9. Dongqi Jiang, Chair: Dr. J. Mander, *Experiments, Analysis and Design Models for Slab on Prestressed Concrete Girder Bridge Structures*, December 2015 [Research Fellow, Centre for Offshore Research & Engineering (CORE), Department of Civil & Environmental Engineering, National University of Singapore].
10. Ardeshir Tehrani, Chair: Dr. S. Hurlbaas, *Microstructure-Based Computational Modeling of Mechanical Behavior of Polymer Micro/Nano Composites*, December 2013 [currently a practicing engineer in Houston, Texas].
11. Radhakrishna Pillai, Ph.D., *Electrochemical Characterization and Probabilistic Capacity Modeling of Post-Tensioning Strands and Structural Reliability Assessment of Post-tensioned Concrete Bridges*, Co-Chair: Dr. D. Trejo, May 2009 [Assistant Professor, Civil Engineering Department, Indian Institute of Technology Madras, India].
12. David Peralta-Gonzalez, Ph.D., *Seismic Performance of Rehabilitated Floor and Roof Diaphragms*, Co-Chair: Dr. J. Bracci, May 2003 [currently a practicing engineer in San Antonio, Texas].

Masters of Science Students (20 completed)

Chair or Primary Co-Chair of Committee

1. Jennifer Michelle Prouty, M.S., Co-Chair: Dr. S. Hurlbaas, *Sustainable and Durable Infrastructure with Advanced Construction Materials*, August 2014.
2. Joel Petersen-Gauthier, M.S., Co-Chair: Dr. J. Mander, *Application of the Grillage Methodology to Determine Load Distribution Factors for Spread Slab Beam Bridges*, August 2013.
3. Eric Puls, M.S., *A Framework for Historic Bridge Preservation*, August 2013.
4. Akshay Parchure, M.S., *Design of Continuous Prestressed Concrete Spliced Girder Bridges*, August 2013.
5. Laura Ortiz, M.S. (2011 NSF Graduate Fellowship recipient), *Rehabilitation Techniques and Assessment of a Historic Reinforced Concrete Variable Depth Girder Bridge*, May 2013.
6. Ajay Shastri, M.S., *Computational Modeling of Conventionally Reinforced Coupling Beams*, December 2010.
7. Erin Kueht, M.S. (2005 NSF Graduate Fellowship recipient), *Impact of Seismic Code Provisions in the Central U.S.: a Performance Evaluation of a Reinforced Concrete Building*, August 2007.
8. Safiuddin Adil Mohammed, M.S., *Impact of AASHTO LRFD Bridge Design Specifications on the Design of Type C and AASHTO Type IV Girder Bridges*, December 2005.
9. Jong-Wha Bai, M.S., *Seismic Fragility and Retrofitting for a Reinforced Concrete Flat-Slab Structure*, May 2004.
10. Mohsin Adnan, M.S., Co-Chair: Dr. P. Keating, *Impact of AASHTO LRFD Specifications on the Design of Precast, Pretensioned U-Beam Bridges*, December 2005.
11. Gladys Cuadros, M.S., *Evaluation of High Strength Concrete Prestressed Bridge Girder Design*, May 2003.
12. Fayez Moutassem, M.S., *Evaluation of Allowable Stresses For High Strength Concrete Prestressed Bridge Girders*, May 2003.

13. Praveen Chompreda, M.S., Co-Chair: Dr. D. Trejo, *Evaluation of Mechanical Properties of High Strength Concrete for Prestressed Concrete Bridge Design*, December 2001.
14. Joel Barron, M.S., *Performance Based Evaluation of the Seismic Resistance of Structures with Concrete Diaphragms*, May 2001.
15. Jennifer Buchanan, M.S., *Effect of Liquefaction on the Behavior of a Retrofitted Pile Foundation Subjected to Cyclic Loading*, August 2000.
16. Laila Jimenez, M.S., *Seismic Rehabilitation of a Reinforced Concrete Flat-Slab Structure*, Dec 1999.

Co-Chair of Committee

1. Casey Jones, M.S., Chair: Dr. S. Hurlebaus, *Non-destructive Evaluation of Stay Cable Bridge Systems*, December 2015.
2. Katlyn McCoy, M.S., Chair: Dr. S. Hurlebaus, *Non-destructive Evaluation of Cable and External Post-tensioning Systems*, December 2014.
3. Laura Brown, M.S., Primary Co-Chair: Dr. J. Bracci, *Assessment of Seismic Risk for Subsea Production Systems in the Gulf of Mexico*, August 2003.
4. Amber Grubbs, M.S., Primary Co-Chair: Dr. J. Bracci, *Seismic Rehabilitation of Wood Diaphragms in Unreinforced Masonry Buildings*, December 2002.

Master of Engineering with Report (8 completed)

1. Anagha Parkar, M.E., Co-Chair: Dr. J. Mander, *Continuous Prestressed Concrete Bridges*, August 2013.
2. Muhammad Usman, M.E., *Seismic Design of Concrete Structures - A Comparison of US Approach with New Seismic Provisions of Pakistan Building Code After Disaster of 2005 Kashmir Earthquake*, May 2009.
3. Ahsanuddin Kamran Syed, M.E., *Design of Tilt-Up Concrete Structures*, May 2009.
4. Najla Issaq, M.E., *Review of Slab-Column Connection Test Data and Literature Review on Seismic Design Considerations for School Buildings*, December 2008.
5. Refik Sahin, M.E., *Investigation of Building Damage in Turkey Following the Major Kocaeli and Duzce Earthquakes of 1999*, December 2001.
6. Vincent Fratinardo, M.E., *Comparative Study of Methods Used to Model Pile Group Foundations Subjected to Dynamic Loading*, December 2000.
7. Samuel Young Gameros, M.E., *Influence of Retrofit Micro-Piles on Dynamic Behavior of Bridge Pile Foundations*, May 2000.
8. Rebecca Fischer, M.E., *Three-Dimensional Dynamic Analysis of a Reinforced Concrete Building Damaged During the Northridge Earthquake*, December 1999.

Undergraduate Student Research

- Sponsored 21 undergraduate students to assist with various aspects of research at TAMU.

Postgraduate Scholars

- Hakan N. Atahan, Istanbul Technical University (with D. Trejo)
- Haijuan Duan, Shanghai Jiatong University

Graduate Advisors

- MS: Professor Steven L. McCabe, University of Kansas
- PhD: Professor James K. Wight, University of Michigan