BIOGRAPHICAL DATA

BEASON, W. Lynn May 2017

Senior Principal, Beason Brackin & Associates, LLC.

Birthdate: l95l Citizenship: U.S.

PROFESSIONAL INTERESTS: Structural Engineering - Research, Analysis and Design
Structural Materials
Probabilistic Design Methods
Wind Loads on Structures
Dynamic Loads and Structural Behavior
Cladding Design
Highway Safety

EDUCATION: Ph.D. in Civil Engineering, Texas Tech University, l980
M.S. in Civil Engineering, Texas Tech University, l974
B.S. in Civil Engineering, Texas Tech University, l973

EXPERIENCE:

Senior Principal, Beason Brackin & Associates, LLC, 2017 - present
Associate Professor of Civil Engineering, Texas A&M University, 1987- 2017
Assistant Professor of Civil Engineering, Texas A&M University, l98l-l987
Research Associate/Lecturer, Department of Civil Engineering, Texas Tech University, l974-8l
Research Assistant, Department of Civil Engineering, Texas Tech University, l973-74

SOCIETY MEMBERSHIPS:

Sigma Xi
Chi Epsilon
American Society of Civil Engineers
American Society for Testing Materials

COMMITTEE MEMBERSHIPS:

Former Member of the Board of Governors of Insulating Glass Certification Council
ASTM E-6 on Performance of Building Constructions

PROFESSIONAL LICENSES:

Registered Professional Engineer, Texas #55905

Registered Professional Engineering Firm, Texas #F7157

PATENTS:

Low Profile Concrete Road Barrier - Pat. Num. 5,156,485 Oct. 20, 1992

Safety End Barrier for Concrete Road Barriers - Pat. Num. 5,295,757 Mar. 22, 1994

HONORS AND AWARDS:

Zachry Teaching Award for Excellence in Teaching 1991/1992

Roadside Safety Features Committee A2A04 Best Paper Award -- presented at the 71st Annual Meeting of the Transportation Research Board in Washington, DC in recognition of a paper entitled "A Single Slope Concrete Median Barrier" -- January 1992

K. B. Woods Award -- presented at the 72nd Annual Meeting of the Transportation Research Board in Washington, DC in recognition of a paper of outstanding merit entitled "Development of a Low-Profile Portable Concrete Barrier" -- January 1993

Zachry Teaching Award for Excellence in Teaching 2001/2002

Student Engineers Council Outstanding Faculty Member Award in 1999/2000.

ASCE Chicken Award in Recognition of the Civil Engineering Professor of the Year 2008.

UNDERGRADUATE TEACHING:

ENGR 221 Engineering Mechanics: Statics and Dynamics (2-2) (co-developer)

CVEN 289 Engineering Mechanics: Statics (2-2) (developer and course coordinator)

CVEN 221 Engineering Mechanics: Statics (2-2) (developer of blended format and course coordinator)

CVEN 302 Computer Applications in Engineering and Construction (3-0)

CVEN 305 Mechanics of Materials (3-0) (developer of blended format and course coordinator)

CVEN 345 Theory of Structures(3-0)

PUBLICATIONS:

W. Lynn Beason, Michael S. Brackin, and A. William Lingnell (2017), “ASTM E1300 Uniform Load Strength Reduction Factor not Required for Ceramic Enameled Glass,” Glass Performance Days 2017, Tampere, Finland, June.

A. William Lingnell and W. Lynn Beason (2013), “Thermal Stress in Insulating Glass Units,” Glass Performance Days 2013, Tampere, Finland, June.

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 Elastomeric Systems for Blast Loads,” *Proceedings*, 75th Shock and Vibration Conference, Virginia Beach, Virginia, October.

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, October.

Lingnell, A. William and W. Lynn Beason (2003), “A Method of Evaluation for Thermal Stress in Monolithic Annealed Glass,” 8th Glass Processing Days 2003, Tampere, Finland, June.

Beason, W. L., and Lingnell, A. W., "A Thermal Stress Evaluation Procedure for Monolithic Annealed Glass,” *Use of Glass in Buildings, ASTM STP 1434,* V. Block, Ed., American Society for Testing and Materials, West Conshohocken, PA, submitted in 2001.

Beason, W. L., and Lingnell, A. W., "Emerging Uses for Window Glass”, Emerging Materials for Civil Engineering Infrastructure, *State of the Art*, Special Publication edited by R. A. Lopez-Anido and T. R. Naik, ISBN 0-7844-0538-7, ASCE, Reston, VA, 2000.

Beason, W. L., Kohutek, T. L., and Edel, M.A. "Making an Independent Examination of the Structural Behavior of Laminated Glass”, Glass Digest, Ashlee Publishing Co., NY, July 15, 1998

Beason, W. L., Kohutek, T. L., and Bracci, J.M. "Basis for ASTM E1300 Annealed Glass Thickness Selection Charts," *Journal of Structural Engineering*, ASCE, Vol.124, No. 2, February, 1998.

Beason, W. L. "Discussion of 'Strength of New Heat Treated Window Glass Lites and Laminated Glass Units'," Journal of Structural Engineering, ASCE, Vol. 120, No. 10, October, 1994.

Beason, W. L., and C. J. Barry, "Development of a New Glass Thickness Selection Procedure," ASTM Standardization News, Vol. 20, Num. 11, November 1992.

Guidry, T. R., and W. L. Beason, "Development of a Low-Profile Portable Concrete Barrier," Transportation Research Record 1367, Transportation Research Board, National Research Council, Washington, D.C., 1992.

Beason, W. L., H. E. Ross, Jr., H. S. Perera, and Mark Marek, "Single-Slope Concrete Median Barrier," Transportation Research Record 1302, Transportation Research Board, National Research Council, Washington, D.C., 1991.

Beason, W. L., and H. Scott Norville, "Development of a New Glass Thickness Selection Procedure," Journal of Wind Engineering and Industrial Aerodynamics, Volume 36, pp 1135-1144, 1990.

Beason, W. L., and H. Scott Norville, "Development of a New Glass Thickness Selection Procedure," Proceedings of the Sixth U.S. National Conference on Wind Engineering, Vol. II, University of Houston, Mar. 8-10, 1989.

Beason, W. L. and T. L. Kohutek, "Suggested Design Criteria for Windborne Missiles," Proceedings of the NSF/WERC Symposium on High Winds and Building Codes, Kansas City, Missouri, Nov. 2-4, 1987.

Beason, W. L., "Structural Analysis of Sealed Insulating Glass," Journal of Structural Engineering, ASCE, Volume ll2, No. 5, May l986.

Beason, W. L., "Structural Performance Criteria for I.G Units Under Development," Glass Digest, Ashlee Publishing Co. Inc., New York, Feb. l5, l986, pp. l03, l04.

Beason, W. L., R. W. James, J. K. Nelson, and G. E. Meyers, "Recent Window Glass Breakage in Houston," Proceedings of the Fifth U.S. National Conference on Wind Engineering, Texas Tech University, Lubbock, Texas, Nov. 6-8, l985.

Beason, W. L., T. J. Hirsch, and J. C. Cain, "A Low-Maintenance, Energy-Absorbing Bridge Rail," Transportation Research Record l065, Transportation Research Board, National Research Council, Washington, D.C., l986.

Beason, W. L. and D. L. Ivey, "Structural Performance Levels for Portable Concrete Barriers," Transportation Research Record l024, Transportation Research Board, National Research Council, Washington, D.C., l985.

Nelson, J. K. and W. L. Beason, "An Indicator of Residential Roof Strength in Wind," Journal of Structural Engineering, ASCE, Vol. lll, No. 9, pp. l993-2007, Sept. l985.

Beason, W. L. and H. E. Ross, Jr., "A Truck-Mounted Portable Maintenance Barrier," Transportation Research Record l024, Transportation Research Board, National Research Council, Washington, D.C., l985.

Nelson, J. K., Beason, W. L., and Pond, A. D., "A Hybrid Structural Ice Defense Mechanism," Proceedings of Arctic '85: Civil Engineering in the Arctic Offshore, San Francisco, Mar. l985.

Beason, W. L., G. E. Meyers, and R. W. James, "Hurricane Related Window Glass Damage in Houston," Journal of Structural Engineering, ASCE, Volume ll0, No. l2, Dec. l984.

Beason, W. L. and J. R. Morgan, "A Glass Failure Prediction Model," Journal of Structural Engineering, ASCE, Volume ll0, No. 2, Feb. l984.

Beason, W. L. and J. E. Minor, "Window Glass Research at Texas Tech University," Research paper presented at the Fourth U.S. National Conference on Wind Engineering Research, Seattle, Washington, July 27-29, l98l.

Minor, J. E., W. L. Beason, and P. L. Harris, "Designing for Windborne Missiles in Urban Areas," Journal of the Structural Division, ASCE, Volume l04, No. STll, Proceedings Paper l4l43, Nov. l978, pp. l749-60.

Beason, W. L. and J. E. Minor, "A New Approach to the Design of Window Glass for Wind Loading," Proceedings of the Second Canadian Workshop on Wind Engineering, Institut de Recherche de l'Hydro-Quebec, Varennes, Quebec, Sep. 28-29, l978 (published by the National Research Council of Canada, Ottawa, Ontario, Canada), pp. l3l-l34.

Beason, W. L. and J. E. Minor, "Response of Window Glass to Wind Loads," Proceedings of the Third U.S. National Conference on Wind Engineering Research, Gainesville, Florida, Feb. 26-Mar. l, l978 (published by the Division of Continuing Education, University of Florida, Gainesville), pp. l99-202.

Smith, J. H. and W. L. Beason, "Structural Response of Damaged Horizontal Stabilators," Paper presented at the American Defense Preparedness Association Conference, San Diego, California, Nov. l977.

Minor, J. E. and W. L. Beason, "Window Glass Failures in Windstorms," Journal of the Structural Division, ASCE, Vol. l02, No. STl, Proceedings Paper ll834, Jan. l976, pp. l47-l60.

Minor, J. E. and W. L. Beason, "Window Glass Failures During Windstorms," The Glass Industry, Vol. 56, No. 2, Feb. l975, pp. l2-l5, 32.

Beason, W. L., "Breakage Characteristics of Window Glass Subjected to Small Missile Impacts," Master's Degree Thesis, Department of Civil Engineering, Texas Tech University, Dec. l974, 87 pp.

SIGNIFICANT REPORTS:

Beason, W.L.; M.S. Brackin, Bligh, R.P.; and Menges, W.L., “Development and Testing of a Non-Pinned Low-Profile End Treatment”, Research Report 9-1002-12-7, Texas Transportation Institute, College Station, TX, October 2013

Beason, W.L.; Sheikh, N.M.; Bligh, R.P., and Menges, W.L., "Low-Profile Barrier to Standard Concrete Traffic Barrier", Research Report 0-5527-1, Texas Transportation Institute, College Station, TX, August 2006.

Beason, W. L., D. L. Ivey, and B. Anderson, "Development of Low-Profile to Safety-Shape Transition Sections," Final Report submitted to Texas Department of Transportation, Texas Transportation Institute, Texas A&M University, Nov. 1994.

Beason, W. L., T. H. Hayes, and M. Chawla, "Investigation of Glass Windows in Altitude Training Facilities," United States Navy, Naval Facilities Engineering Laboratory, Port Hueneme, CA, April 1994.

Beason, W. L., and D. T. Magro, "Development of a Blast Resistant Glass Thickness Selection Procedure," Final Report submitted to Naval Civil Engineering Laboratory, Port Hueneme, CA, July 1994.

Beason, W. L., and D. L. Bullard, Jr., "Development of a Limited-Slip Portable Concrete Barrier Connection," Final Report submitted to Texas Department of Transportation, Texas Transportation Institute, Texas A&M University, Nov. 1993.

Abbey, R. F., W. L. Beason, T. T. Fujita, D. C. Perry, J. W. Reed, L. A. Twisdale, D. S. Ng, G. S. Holman, and J. R. McDonald, "Title I Wind/Tornado Design Guidelines for New Production Reactors," Final Report submitted to Lawrence Livermore National Laboratory, Livermore, CA, Sept. 1993.

Beason, W. L., "Development of a Failure Prediction Model for Heat-Treated Glass," Final Report submitted to Cardinal IG, Minneapolis MN, July 1993.

Beason, W. L., "Development of an End Treatment for a Low-Profile Concrete Barrier," Final Report submitted to Texas Department of Transportation, Texas Transportation Institute, Texas A&M University, Nov. 1992.

Beason, W. L., and D. L. Sicking "An Assessment of Metal Beam Guard Fence Length-of-Need Requirements," Final Report submitted to Texas Department of Transportation, Texas Transportation Institute, Texas A&M University, Aug. 1992.

Guidry, T. R., and W. L. Beason, "Development of a Low-Profile Portable Concrete Barrier," Final Report submitted to Texas Department of Transportation, Texas Transportation Institute, Texas A&M University, Nov. 1991.

Perry, D. C., and W. L. Beason, "Postearthquake Structural Evaluations of U.S. Postal Service Buildings, Appendix F. General Guidelines for the Evaluation of Flood and Windsorm Damage," ATC 26-2-1, Applied Technology Council, Redwood City, CA, Sept. 1990.

Perry, D. C., and W. L. Beason, "Wind Load Design Criteria for American Airlines Wide-Body Hangar Facility, Alliance Airport, Fort Worth, Texas," Final Report submitted to Fleming Steel Company, New Castle, PA, Sept. 1990.

Beason, W. L., and W. L. Campise, "Testing of Lap-Splice Concrete Median Barrier Connection," Final Report submitted to Texas State Department of Highways and Public Transportation, Texas Transportation Institute, Texas A&M University, Nov. 1989.

Beason, W. L., T. J. Hirsch, and W. L. Campise, "Measurement of Heavy Vehicle Impact Forces and Inertia Properties," Final Report for Contract DTFH61-85-00101, Federal Highway Administration, Texas Transportation Institute, Texas A&M University, May 1989.

Beason, W. L., and J. Lera, "Edge Strength Failure Prediction Model for Glass Plates Subjected to Thermal Stresses," Final Report submitted to Cardinal IG, Minneapolis, Minnesota, Mar. 1989.

Beason, W. L., H. E. Ross, Jr., H. S. Perera, and W. L. Campise, "Development of a Single Slope Concrete Median Barrier," Final Report No. 9429CDK, submitted to Texas State Department of Highways and Public Transportation, Texas Transportation Institute, Texas A&M University, Feb. 1989.

Beason, W. L., and J. Lera, "An Evaluation of the Failure Risks of a Specific Window Design," Final Report submitted to Rolscreen Company, Pella, Iowa, Jan. 1989.

Mak, K. K., W. L. Beason, T. J. Hirsch, and W. L. Campise, "Oblique Angle Crash Tests of Loaded Heavy Trucks into an Instrumented Wall," Final Report submitted to the National Highway Traffic Safety Administration and Federal Highway Administration, Texas Transportation Institute, Texas A&M University, Feb. 1988.

Beason, W. L., T. J. Hirsch, and W. L. Campise, "Development and Testing of a Modified Reverse Lap-Splice Concrete Median Barrier Connection," Final Report submitted to D. G. M. Construction, Inc., Houston, Tx., Texas Transportation Institute, Texas A&M University, July 1987.

Beason, W. L., "Design Criteria for Insulating Glass with Plates of Equal or Different Thicknesses," Final Report submitted to Cardinal IG, Minneapolis, MN, Mar. l986.

Beason, W. L., J. C. Cain, and T. J. Hirsch, "A Low Maintenance, Energy Absorbing Bridge Rail," Research Report 4l7-lF, Texas Transportation Institute, Texas A&M University, Nov. l985.

Beason, W. Lynn and H. E. Ross, Jr., "Development of a Truck-Mounted Portable Maintenance Barrier," Research Report 262-5, Texas Transportation Institute, Texas A&M University, Apr. l984.

Ivey, Don L., C. E. Buth, Richard G. Robertson, Roger J. Koppa, W. Lynn Beason, Olga J. Pendleton, and H. E. Ross, Jr., "Barriers in Construction Zones," Volume l: Summary Report; Volume 2: Appendix A; Volume 3: Appendices B, C, D and E; Final Report on Contract DOT-FH-ll-9485, Texas Transportation Institute, Texas A&M University, Mar. l984.

Beason, W. L., "A Failure Prediction Model for Window Glass," Institute for Disaster Research, Texas Tech University, Lubbock, Texas, May l980 (NTIS Accession No. PB8l-l4842l), 2l2 pp.

Harris, P. L., W. L. Beason, and J. E. Minor, "The Effects of Thickness and Temper on Resistance of Glass to Small Missile Impact," Institute for Disaster Research, Texas Tech University, Lubbock, Texas, May l978, 89 pp. (NTIS Accession No. PB29l 0l4/AS).

Smith, Jimmy H. and W. Lynn Beason, "Dynamics of Complex Structures - Analysis and Experiment: Damaged Aircraft Stabilators," Final Report on Grant No. AFOSR 77-323l, Texas Tech University, Nov. l978.

Beason, W. Lynn, "Breakage Characteristics of l/4 Inch Tempered Glass Subjected to Small Missile Impact," Final Report submitted to the Institute for Disaster Research, Texas Tech University, Oct. l975.