

H. SCOTT NORVILLE  
Professor of Civil, Environmental and Construction Engineering  
Texas Tech University  
Lubbock, Texas  
e-mail: scott.norville@ttu.edu  
PH: (806) 834-4534

### **Professional Preparation**

B.S. in Civil Engineering, the University of Toledo, 1974  
M.S. in Civil Engineering, Purdue University, 1976  
Ph. D. in Civil Engineering (Structural Reliability), Purdue University, 1981

### **Professional Chronology**

Chair of Civil Engineering, 2004-2014  
Interim Chair of Civil Engineering, 2003-2004  
Professor of Civil Engineering, 1992-present  
Director, Glass Research and Testing Laboratory, 1987-2003  
Associate Professor of Civil Engineering, Texas Tech University, 1986-1992  
Assistant Professor of Civil Engineering, Texas Tech University, 1981-1986  
Graduate Instructor, School of Civil Engineering, Purdue University, 1974-1980  
Structural Designer, Berger Steel, Lafayette, Indiana, Summer 1978  
Project Engineer, Division of Engineering and Construction, City of Toledo, Toledo, Ohio, Summer 1974 and Summer 1976  
Engineering Aide, Division of Engineering and Construction, City of Toledo, Toledo, Ohio, 1972 to 1974  
Active Duty, U.S. Marine Corps, 1968-1970

### **Research Interests**

Window Glass Strength, particularly Heat Strengthened and Fully Tempered  
Blast Resistant Glazing Design  
Impact Resistant Glazing Design  
Strengths of Glass with Coatings and Frits

### **Honors/Awards**

Elected to Fellowship, ASTM (2014)  
Award of Merit, ASTM (2014)  
Award of Appreciation, ASTM (2006)  
President's Excellence in Teaching Award, TTU (2002)  
Elected to Membership, Provost's Teaching Academy, TTU (1999)  
El Paso Energy Foundation Faculty Achievement Award, TTU (1999)  
Excellence in Teaching Award, Halliburton Foundation, (1997)  
Excellence in Research Award, Halliburton Foundation, (1990, 1993)  
New Professor: Excellence in Teaching Award, Parents Association, TTU (1985)  
"Best Professor Outside of Mechanical Engineering School" awarded by the Student Body in Mechanical Engineering, Purdue University (1981)  
Vashti L. McGoon Award for Outstanding Instructor in the Schools of Engineering, Purdue University (1981)  
Nellie Munson Award for the Outstanding Teaching Assistant in Civil Engineering, Purdue University (1978)

### **Synergistic Activities/Committee Membership**

1. 1<sup>st</sup> Vice Chairman, ASTM Committee F 12 on Building Security (2012-Present)
2. Chairman, ASTM Committee F 12 on Building Security (2000-2005)

3. Co-Chairman, ASTM Task Group E06.51.13 on Glass Strength (2006-Present)
4. Member, ASTM Task Group E06.51.13 on Glass Strength (1986-Present)
5. Chairman, ASTM Task Group F 12.10.05 on Blast Resistant Glazing (1991-Present)
6. Member, ANSI Committee Z97 on Testing Safety Glazing (2004-Present)
7. Member, ASTM Task Group E 06.51.17 for Windborne Missile Impact (1993-Present)

### **Selected Publications**

1. Natividad, K., Morse, S. M., and Norville, H. S. (In Review). "Tests of heat treated glass with ceramic frit," *Journal of Architectural Engineering, ASCE*.
2. Natividad, K., Morse, S. M., and Norville, H. S. (In Press). "Fracture origins and maximum principal stresses in rectangular glass lites," *Journal of Architectural Engineering, ASCE*.
3. Barry, C.J. and Norville, H.S. (2015). "Unexpected Breakage in Ceramic Enameled (Frit) HS IG Spandrels," IGMA, Winter Conference. Feb 3-7 2015, (On line: <http://www.igmaonline.org/technical/barry.asp>).
4. Morse, S. M. and Norville, H. S. (2014). "A method to determine the probability of failure for window glass loaded with a uniform wind load," *Journal of Architectural Engineering, ASCE*, 20(1): 1-11.
5. Hauck, J., Cinnamon, A., Norville, H.S., Morse, S. (2013). "Testing of existing annealed glass samples with minor surface blemishes, *Proceedings, Glass Performance Days, Tampere, Finland. June 12-15.*
6. Morse, S.M. and Norville, H. S. (2012). "A design methodology for determining the load resistance of heat-treated window glass, *Journal of Architectural Engineering, ASCE*, 17(1): 42-51.
7. Morse, S. M. and Norville, H.S. (2011). "An analytical method for determining window glass strength," *Proceedings, Glass Performance Days 2011, Tampere, Finland, June 18-20.*
8. Norville, H.S. and Morse, S.M. (2011). "Load sharing and load resistance in triple glazed insulating glass units," *Proceedings, Glass Performance Days 2011, Tampere, Finland. June 18-20.*
9. Norville, H.S. and Morse, S.M. (2011). "Maximum principal stress and probability of breakage for glass in buildings," *Glass Performance Days 2011, Tampere, Finland, June 18-20.*
10. Morse, S. M. and Norville, H.S. (2011). "Comparison of laminated glass charts to the effective thickness provisions in ASTM E1300," *Proceedings, Glass Performance Days 2011, Tampere, Finland, June 18-20.*
11. Morse, S.M. and Norville, H.S., (2010). "A relationship between probability of breakage to maximum principal stresses in window glass," *Journal of Architectural Engineering, ASCE*, 16(1): 20-28.
12. Norville, H.S. and Morse, S.M. (2009): A model to describe the load resistance (strength) of heat treated architectural glass," *Proceedings, Glass Performance Days, Tampere, Finland, June 12-16.*
13. Norville, H.S. and Conrath, E. (2006). "Blast resistant glazing design," *Journal of Architectural Engineering, ASCE*, 12(3): 129-136.
14. Minor, J.E. and Norville, H.S. (2006). "Design of window glass for lateral pressures," *Journal of Architectural Engineering, ASCE*, 12(3): 116-121.