Resume

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Personal Information

Born:	Toledo, Ohio on October 21, 1948
Married:	Former Heather Anne Jackson on August 27, 1977
Three Children:	Julie Erin, born January 14, 1980 Kristin Anne, born March 28, 1983, and Sean Alan, born November 21, 1986

Education

Ph.D. in Civil Engineering, Purdue University, 1981
M.S. in Civil Engineering, Purdue University, 1976
B.S. in Civil Engineering, University of Toledo, 1974

Current Positions at Texas Tech University

Chair of Civil Engineering, 2004-present
Interim Chair of Civil Engineering Department, 2003-2004
Professor of Civil Engineering, 1992-present.
Director, Glass Research and Testing Laboratory, 1987-present.

Previous Employment Experience

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.

Professional Memberships

American Society of Civil Engineers
ASTM
International Standards Organization
ANSI

Registration

Registered Professional Engineer, State of Texas, No. 59274

Honors and Awards

2006: ASTM: Award of Appreciation.
2002: President's Excellence in Teaching Award, Texas Tech University.
2000: Excellence in Education Award – "Best Teacher Outside Petroleum Engineering," Presented by the Student Society of Petroleum Engineering.
1999: El Paso Energy Foundation Faculty Achievement Award.
1999: Member, Texas Tech University Provost's Teaching Academy.
1997: "Excellence in Teaching" awarded by the Halliburton Foundation.
1997: Civil Engineering Leadership Scholarship awarded by University Interscholastic League, Region I, Texas.
1993: "Excellence in Research" awarded by the Halliburton Foundation.
1990: "Excellence in Research" awarded by the Halliburton Foundation.
1985: "New Professor: Excellence in Teaching," awarded by the Dads Association, Texas Tech University.
1981: "Best Professor Outside of Mechanical Engineering School," awarded by the Student Body in Mechanical Engineering, Purdue University.
1980: Vashti L. McGoon Award for Outstanding Instructor in the Schools of Engineering, Purdue University.
1979: Purdue University Research Grant for Graduate Instructors.
1978: Nellie Munson Award for the Outstanding Teaching Assistant in Civil Engineering, Purdue University.

Teaching Activities

Courses Taught

Purdue University:

EG 116 - Graphics I
EG 120 - Electronic Drafting
CE 273 – Mechanics of Materials
CE 371 - Structural Analysis I

Texas Tech University:

CE 2210 - Procedures of Problem Analysis I, Numerical Methods
CE 2301 – Statics
CE 3210 - Procedures of Problem Analysis II, Probability and Statistics
CE 3302 – Dynamics
CE 3303 - Mechanics of Solids
CE 3440 – Structural Analysis I
CE 3441 – Principles of Structural Design
CE 4340 – Structural Analysis II
CE 4330 - Design of Engineering Systems
CE 5311 – Advanced Mechanics of Solids
CE 5346 – Structural Dynamics I
CE 5347 – Structural Dynamics II

Short Courses

2003 "Window Glass Design for Force Protection," November.
2003 "Natural Hazard Glass Design Short Course," with J.E. Minor, August.
2002 "Engineering design of architectural window glass," with J.E. Minor, October.
1999 "Engineering design of architectural glazing systems," with J.E. Minor, April.

Chairman, Doctoral Committees

Stephen M. Morse
Paul M. Bove
Siew H. Liew
Dudley G. McFarquhar

Chairman, M. S. Committees

Ana Abarca
Vinu Abraham
Scott Bole
Paul M. Bove
Alfred F. Farwagi
Dennis Haar
S.Y. Hsu
Y.S. Hwang
Ryan Jackson
Diboro C. Kanabolo
Kim King
John Knox
C.K. Lai
Tyler Mackay
Dudley G. McFarquhar
Roberto Rodriguez-Mendieta
Steven Samuels
Darrel L. Sheridan
June W. Sligar
Jason Swofford
Jason Taylor

Supervisor, Post Doctoral Research Associate

Mostafa M. El-Shami

Service Activities

Departmental Service

2002 – 2003	Member, Search Committee for Director, Wind Engineering Research Center.
2002 – 2003	Member, Civil Engineering Awards Committee.
2001 – 2002	Chairman, Civil Engineering Search Committee for Structures Faculty Member.
2000 – 2001	Member, Civil Engineering Search Committee for Wind Engineering Faculty Member.
1997 - Present	Presenter of Engineering Mechanics Review Sessions for the Engineer-in-Training Examination for the CE 4000 Review Course.
1997 – 1998	Chairman, Civil Engineering Search Committee for Three Faculty Members (One each in Structures, Transportation, and Environmental Engineering).
1997 - Present	Member, Civil Engineering Curriculum Committee.
1992 - Present	Faculty Co-Advisor, Murdough Student Chapter ASCE.
1988 – 1989	Member, Search Committee for Civil Engineering Chairman.

College of Engineering Service

2006 -- 2007	Chair, Search Committee for Chair of Engineering Technology
2003 -- 2004	Chair, Search Committee for Chair of Chemical Engineering
2002 – 2003	Member, College of Engineering Awards Committee.
1998 – 2000	Member, Search Committee for Dean, College of Engineering.
1990	Member, Engineering Technology Chairman Search Committee.
1981 – 1995	Presenter of Engineering Mechanics Review Sessions for the Engineer-in-Training Examination for the Tau Beta Pi National Engineering Honor Society.

University Service

2000 – 2001	Member, Texas Tech Faculty Senate.
1985 – 1986	Alternate Member of University Discipline Committee.

Public Service

1984 – 2003	Regional Director, Calculator Contest, University Interscholastic League.
1981 – 1987	Judge, South Plains Regional Science Fair.

Professional Service

As Requested	Reviewer of Papers for Engineering Journals published by the American Society of Civil Engineers.
2006-Present	Co-Chair, ASTM Task Group E06.51.13 for Window Glass Strength
2000 – 2005	Chair, ASTM Committee F12 for Building Security.
2004 - Present	Member of ANSI Z97 Committee on Testing Safety Glazing
1997 - Present	Member, ISO US Delegation to TC 160 on Window Glass.
1993 - Present	Member, ASTM Task Group E06.51.17 for Windborne Missile Impact.
1991 - Present	Chair, ASTM Task Group F12.15 for Development of Blast Testing Standard for Glazing and Glazing Products.
1987 – 1990	Chair of Scholarship Committee, South Plains Chapter, TSPE.
1986 - Present	Member, ASTM Task Group E06.51.13 for Window Glass Strength.
1984 – 1987	Chair of Arrangements Committee, High Plains Branch, Texas Section, ASCE.

Consulting Services (Clients)

Architectural Wall Services, Ltd.
Architectural Glass and Aluminum
Bonn Associates
Brown Construction Company
Building Technologies
Cadillac Fairview Corporation
CETRA/CRI ARCHITECTURE
Custom Window
Dupont
Dependable Glass
Ford Motor Company, Glass Division
Foster and Partners, Ltd.
Gilsanz.Murray.Stefacek
Glazing Consultants, Inc.
Hong Kong Airport Authority
Innovative Structural Glass, Inc.
Libbey-Owens-Ford
Lorron Corporation
Midwest Curtain Walls
Monsanto Company
Oldebrecht Construction
Pan Lam, Inc.
Pilkington
Protection Engineering Consultants
Raths, Raths, and Johnson
Royal Insurance Company
St. Charles Glass
Solutia
Star Mountain Research, Inc.
Tampa International Airport
UNITECH
Vitro Engineering
Vornado Property
Weidlinger and Associates
Wells Fargo Bank

Miscellaneous Professional Involvement

1999 – Present	Member, Norville, Schroeder, and Smith, LLP.
1998 – Present	Vice-President, Standards Design Group, Inc.
1992 – Present	Member, Board of Directors, Hurricane Test Laboratory.
1992 – Present	Member, Board of Directors, BFOL.

Grants and Research Contracts *(Principal or Co-Principal Investigator Responsibility)*

"Elevated Temperature Tests Fabricated with AII and DN Interlayers," with Stephen M. Morse, $13,989 from Solutia, February 2011.

"Q Interlayer Verification Tests," $11,938 from Solutia, April 2008.

“Strength of ‘Q’ Series Laminated Glass,” $25,426 from Solutia, February 2008.

"Vanceva Verification Tests," $19,119.00 from Solutia, December 2005.

“Development of Non-Factored Load Charts for Laminated Glass with Saflex VSO2 Interlayer," $55,972 from Solutia, October 2004.

“CAB Glass Load Resistance Charts,” $11,400 from Wilfred Baker Engineering, November 2003.

“Development of Non-Factored Load Charts for Thick Laminated Glass with Saflex HP/DM Interlayer and Standard Saflex,” $19,527 from Solutia, October, 2003.

“Development of Design Charts for Laminated Glass with HG/MD Interlayer,” $38,774 from Solutia, August 15, 2002

“Blast Tests of British Embassy Windows,” $62,351 from Custom Window, April 1, 2002.

“Tests of a New Laminated Glass Interlayer,” $31,954 from Solutia, August 29, 2001.

“Behavior Laminated Glass at Elevated Temperatures,” $49,406 from Solutia, December 31, 1999.

“Force Protection Exhibitors Demonstration,” $23,200 from Solutia, January 1, 2001.

“Investigation of Federal Aviation Administration Glass,” $88,952 from the Federal Aviation Administration, May 1, 2000.

“Windstorm Mitigation Initiative,” $1.2 million, Cooperative Agreement with the National Institute of Standards and Technology, (with, K.C. Mehta, J.R. MacDonald, E.W. Kiesling, R.E. Peterson, and D.A. Smith), September 1999.

“Laminated Glass Behavior at Elevated Temperatures,” $49,406 from Solutia, January 2000.

“Force Protection Demonstration,” $40,000 from Solutia, Inc., April, 1999.

“Windstorm Mitigation Initiative,” $3.6 million, Cooperative Agreement with the National Institute of Standards and Technology, (with, K.C. Mehta, J.R. MacDonald, E.W. Kiesling, R.E. Peterson, and D.A. Smith), August 1998.

“Project Omega Blast Test,” $35,227 from Dupont, June, 1998.

“Las Vegas Courthouse No. 1,” $59,700 from Chanen/Sverdrup, January, 1998.

“Expansion of Windas Database,” $15,500 from Southwest Research Institute, November, 1997.

“Federal Government Demonstration Blast,” $30,870 from Monsanto Co., September, 1997.

Grants and Research Contracts *(Cont'd)*

"Tests of 0.060 in Saflex Interlayer Laminated Glass," $17,000 from Monsanto Co., September, 1996.

"Tests of 0.030 in Saflex Interlayer Laminated Glass," $17,000 from Monsanto Co., September, 1996.

"Further Analysis of Oklahoma City Blast Damage," $40,000 from Dupont and Monsanto Co., September, 1996.

"Demonstration Blast Test," $22,500 from Monsanto Co., October, 1995.

"Modification of Oklahoma City Report," $25,000 from U.S. Naval Surface Weapons Laboratory, September 1995.

"Strength of Laminated Glass Constructions," $17,000 from Monsanto Co., August 1995.

"Modification of Government Standards," $6,000 from U.S. Army Corps of Engineers, July 1995.

"Additional Missile Impact Tests," $15,000 from Monsanto Co., January 1994.

"Missile Impact Test Protocol," $26,000 from Monsanto Co., July 1993.

"Strength of Epoxy Laminated Window Glass," $8,500 from UCB Chemical Co., June 1992.

"Film Composite Tests, $30,000 from Dupont, July 1992.

"Blast Test Performance," $25,500 from Monsanto Co., May 1992.

"ANSI Tests of Glass Constructions," $4,500 from Monsanto Co., January 1992.

"Cooperative Program in Wind Engineering," $269,925 from National Science Foundation, (with K.C. Mehta, J. Gregory, J.R. McDonald, R. Tock and R.E. Peterson), 1992.

"The Strengths of Heat Strengthened and Fully Tempered Laminated Glass Units," $33,000 from Monsanto Co., March 1991.

"Cooperative Program in Wind Engineering," $341,382 from National Science Foundation, (with K.C. Mehta, J. Gregory, J.R. McDonald, R. Tock and R.E. Peterson), 1991.

"Laminated Glass Beam Tests," $8,800 from Monsanto Co., December 1990.

"Ballistic Photographs of Laminated Window Glass Lite Specimens," $6,600 from Monsanto Co. (with M.L. Smith), November 1990.

"Strength of Tempered Window Glass Lites," $85,000 from U.S. Army Corps of Engineers, September 1990.

"Tests of European Laminated Glass Lites," $5,600 from Monsanto Co., May 1990.

"Cooperative Program in Wind Engineering," $263,000 from National Science Foundation, (with K.C. Mehta, J. Gregory, T. Maxwell, J. Lawrence, J.R. McDonald and R.E. Peterson), 1990.

"Strength of AR3 Laminated Glass Lites," $5,500 from Monsanto Co., February 1990.

Grants and Research Contracts *(Cont'd)*

"Pressure System Equipment Grant," $3,984 from Monsanto Co., January 1990.

"Additional Work on Blast Resistance of Laminated Glass Lites, $32,000 from Monsanto Co., December 1989.

"Shear Resistance of PVB Interlayers," $14,900 from Monsanto Co., December 1989.

"Strength of PET Laminated Glass Lites," $7,000 from Monsanto Co., November 1989.

"Dynamic Failure Prediction," $55,000 from Southwest Research Institute (through C.A.R.E.), November 1989.

"Blast Resistance of Laminated Glass Lites, $62,000 from Monsanto Co., June 1989.

"Strength of Laminated Glass Lites," $14,000 from Dupont, May 1989.

"Cooperative Program in Wind Engineering," $159,000 from National Science Foundation, (with K.C. Mehta, J. Gregory, T. Maxwell, J. Lawrence, J.R. McDonald and R.E. Peterson), 1989.

"Additional Tasks: Window Glass Subjected to Low-Level Blast Waves," $399,000 from Patrick Air Force Base, (with J.E. Minor, M.L. Smith and W.P. Vann), July 1987.

"Full-Scale Field Test: Window Glass Subjected to Low-Level Blast Waves," $250,000 from Patrick Air Force Base, October 1986.

"Window Glass Failure Predictions at Arnold Engineering Development Center," (continuation), $3,000 from Lawrence Livermore National Laboratory (with J. E. Minor), September 1986.

"Analysis of Critical Flaws on the Surface of Window Glass Using a Scanning Electron Microscope," $29,995 from the National Science Foundation, July 1986.

"A Proposal for Window Glass Failure and Casualty Predictions, Task 3: Dynamic Failure Prediction in Window Glass," $63,347 from Patrick Air Force Base, April 1986.

"Engineering Research Equipment Grant: Shaker and Multi-Channel FFT Analyzer," $127,134 from National Science Foundation, (with R.A. Ibrahim, J.R. Dunn, and A. Ertas), April 1986.

"Window Glass Failure Predictions at Arnold Engineering Development Center," $18,000 from Lawrence Livermore National Laboratory (with J.E. Minor), August 1985.

"500kv Transmission Line Response Data Analysis Phase II," $59,000 from the Bonneville Power Administration (with K.C. Mehta), July 1985.

"Evaluations of Fracture Patterns, Fallout Patterns, and Lacerative Hazards Presented by Window Glass Broken by Low-Level Blast Waves, Task 6: Probability of Breakage," $55,869 from Patrick Air Force Base, September 1984.

"Evaluations of Fracture Patterns, Fallout Patterns, and Lacerative Hazards Presented by Window Glass Broken by Low-Level Blast Waves, Task 2: Fracture Patterns," $56,678 from Patrick Air Force Base, September 1984.

Grants and Research Contracts *(Cont'd)*

"Concentric Rings Tests on Cardinal IG Specimens," $2010 from Cardinal IG (with J.E. Minor), July 1984.

"500kv Transmission Line Response Data Analysis," $20,000 from the Bonneville Power Administration (with K.C. Mehta), July 1983.

"Wind Data Analysis Project," $87,000 from the Electric Power Research Institute (with K.C. Mehta and W.P. Vann), October 1982.

"Probabilistic Behavior of Elasto-Plastic Columns Due to Horizontal-Vertical Earthquake Loads," (Research Initiation Grant) $46,683 from the National Science Foundation, May 1982.

"Investigation of the Character of Surface Flaws on Window Glass Plates," $7,000 from the National Bureau of Standards (with J.E. Minor), March 1982.

Publications

Reviewed Publications

Morse, S.M. & Norville, H. S. (2011): "A design methodology for determining the load resistance of heat-treated window glass, Journal *Of Architectural Engineering*, *ASCE*, (in press).

Morse, S.M. & 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.

Liu, H., Xu, H., Norville, S., and Bao, Y. (2007). "A virtual differential map matching algorithm with improved accuracy and computational efficiency." *Journal of Navigation*, Vol. 61 (3).

Norville, H.S. and Conrath, E., (2006). "Blast resistant glazing design," *Journal of Architectural Engineering*, ASCE, 12(3): 129-136.

Minor, J.E. and Norville, H.S., (2006). "Design of Window Glass for Lateral Pressures," *Journal of Architectural Engineering*, ASCE, 12(3) 116-121.

El-Shami, M.M. and Norville, H.S., (2003) "A Computer Model for Stress Analysis of Laminated Glass Plates," *Civil Engineering Research Magazine*, Civil Engineering Department, Faculty of Engineering, Al-Azhar University, 25(2), April [Egypt].

Norville, H.S., and Conrath, E.J. (2002). "Design procedure for blast resistant laminated glass," *The Use of Glass in Buildings,* ASTM Stock Number 1434, 159-170.

Norville, H.S., El-Shami, M.M., Jackson, R., and Johnson, G. (2002). "Wind load resistance of large trapezoidal glass lites," *The Use of Glass in Buildings*, ASTM Stock Number 1434, 69-89.

El-Shami, M.M., and Norville, H.S. (2002). "Development of design methodology for rectangular glass supported on three sides to resist lateral uniformly distributed loads," *The Use of Glass in Buildings,* ASTM Stock Number 1434, 66-78.

Norville, H.S. and Morse, S. M. (2001). "New software for designing window glass with ASTM E 1300," *Glass Magazine*, July: 1-6.

Norville, H.S. and Conrath, E.J. (2001). "Considerations for blast resistant glazing design," *Journal of Architectural Engineering*, ASCE, 7(3): 80-86.

Norville, H.S. and Minor, J.E. (2000). "A simplified window glass design procedure," *Journal of Architectural Engineering*, ASCE, 6(4), 105-115.

Norville, H.S., Harvill, N., Conrath, E.J., Shariat, S., Mallonee, S. (1999). "Glass-related injuries in the Oklahoma City bombing, "Journal *of Performance of Constructed Facilities*, ASCE, 13(2), 50-56.

Minor, J.E. and Norville, H.S. (1998). "A simplified window glass design chart," *Journal of Wind Engineering and Industrial Aerodynamics*, 77-78, 197-204.

Norville, H.S. (1998). "The effect of interlayer thickness on laminated glass strength," *Glass-Technology International*, 4, 158-164.

Norville, H.S. (1998). "Laminated glass: glazing material for all conditions," *Texas Architect*, 11/12, Continuing Education Supplement.

Publications

Reviewed Publications (Cont'd)

Norville, H.S., King, K.W. and Swofford, J.L. (1998). "Behavior and strength of laminated glass," *Journal of Engineering Mechanics*, 124(1): 46-53.

Norville, H.S. (1995). "Smash loss costs by using PVB glass," *A.M. Best*, 61-62, September.

Norville, H.S., and Beers, P.E. (1994). "Wind does not break window glass*," Progressive Architecture*, 73(4), 148-152.

Letchford, C.W., and Norville, H.S. (1994). "Wind pressure loading cycles for wall cladding during hurricanes," *Journal of Industrial Aerodynamics and Wind Engineering,* Elsevier Science Publishers, 53, 189-206.

Norville, H.S., Bove, P.M., Sheridan, D. and Lawrence, S. (1993), "The strength of new heat treated window glass lites and laminated glass units*," Journal of Structural Engineering*, ASCE, 119(3), 891-901.

Behr, R.A., Minor, J.E. and Norville, H.S. (1993). "The structural behavior of architectural laminated glass," *Journal of Structural Engineering*, ASCE, 119(1), 202-222.

Beason, W. Lynn and Norville, H.S. (1990). "Development of a new glass thickness selection procedure," *Journal of Wind Engineering and Industrial Aerodynamics*, Elsevier Science Publishers, 36, October, 1135-1144.

Liew, S.H. and Norville, H.S. (1990). "Frequency response function of a transmission tower subjected to multiple loadings," *Journal of Wind Engineering and Industrial Aerodynamics,* Elsevier Science Publishers, 36, 439-447.

Norville, H.S. (1987). Review of *Engineering Mechanics: Statics,* 2nd Ed*.,* by Bela I. Sandor and Karen J. Richter, *Applied Mechanics Review*, 40(9).

Norville, H.S. (1985). Discussion of "Glass failure prediction model," authored by W. Lynn Beason and James R. Morgan, *Journal of the Structural Division*, ASCE, 111(9), 2058-2059.

Norville, H.S. and Minor, J.E. (1985). "The strength of weathered window glass*," Bulletin of the American Ceramic Society*, 64(11), 1467-1470.

Publications

Proceedings

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.

Morse, Summand Norville, H.S. (2009): A relationship between load resistance and maximum principal stress in annealed window glass," *Proceedings*, Glass Performance Days, Tampere Finland, June 12-16.

El-Shami, M.M., Norville, H.S. (2004). "A Mathematical Model for Glass Plates Supported at Discrete Points," *Proceedings of American Society of Civil Engineers, Texas Section, Fall Meeting*, October, Dallas, TX.

Norville, H.S., Johnson, G., and El-Shami, M.M., (2003): "Design Methodology for Airport Traffic Control Tower Cab Glass," *Proceedings of Building Integration Solutions, Architectural Engineering 2003 Conference,* ASCE*,* Austin, TX, September 17-20.

Norville, H.S., and Conrath, E.J., (2003): "3-Second Duration Loads to Design Blast Resistant Laminated Glass," *Proceedings of the 11th International Conference on Wind Engineering*, June, Lubbock, TX.

Letchford, C.W., Norville, H.S. and Bilello, J. (2001). "Cladding performance in the Fort Worth tornado, March 28, 2000," *Proceedings*, International Conference on Building Envelope Systems and Technology, Ottawa, Ontario, Canada, June 27-29, 325-329.

Norville, H.S. and Conrath, E.J. (2001) "Simplified design procedure for blast resistant glazing," *Proceedings*, *Glass Processing Days: The 7th International Conference on Architectural and Automotive Glass*, Tampere, Finland, June 18-21, 381-384.

Norville, H.S., El-Shami, M.M., Jackson, R., and Johnson, G. (2001). "Load resistance of trapezoidal window glass," *Proceedings*, *Glass Processing Days: The 7th International Conference on Architectural and Automotive Glass*, Tampere, Finland, June 18-21, 795-798.

Norville, H.S. and Letchford, C.W. (2001). "Window glass damage in the Fort Worth tornado," *Proceedings*, *Glass Processing Days: The 7th International Conference on Architectural and Automotive Glass*, Tampere, Finland, June 18-21, 378-380.

Norville, H.S. and Mackay, T. (2001). "Strain measurements in laminated glass," *Proceedings*, *Glass Processing Days: The 7th International Conference on Architectural and Automotive Glass*, Tampere, Finland, June 18-21, 372-376.

Norville, H.S. (1999). "Injuries caused by window glass in the Oklahoma City bombing," *Proceedings, Proceedings*, *Glass Processing Days: The 5th International Conference on Architectural and Automotive Glass*, Tampere, Finland, June 13-16, 383-387.

Norville, H.S. (1999). "Strength factor for laminated glass," *Proceedings, Proceedings*, *Glass Processing Days: The 5th International Conference on Architectural and Automotive Glass*, Tampere, Finland, June 13-16, 357-359.

Norville, H.S. (1997). "The effect of interlayer thickness on laminated glass strength," *Glass Processing Days: The 5th International Conference on Architectural and Automotive Glass*, Tampere, Finland, Sept. 13-15.

Publications

Proceedings (Cont'd)

Minor, J.E. and H.S. Norville (1997). "Securing the building envelope for tropical cyclones," *Proceedings,* Asia-Pacific Symposium on Wind Engineering, Gold Coast, Australia, July 14-16, 263-266.

Norville, H.S., King, K.W. and Swofford, J.L. (1997). "A theoretical model for laminated glass behavior," *Proceedings,* Asia-Pacific Symposium on Wind Engineering, Gold Coast, Australia, July 14-16, 297-300.

Minor, J.E. and Norville, H.S. (1997). "A simple window glass design chart," *Proceedings,* Eighth U.S. National Conference on Wind Engineering, Johns Hopkins, Baltimore, MD, June 5-7, 20-21.

Norville, H.S., King, K.W. and Minor, J.E. (1997). "Laminated glass beam behavior," *Proceedings,* Eighth U.S. National Conference on Wind Engineering, Johns Hopkins, Baltimore, MD, June 5-7, 158-160.

Norville, H.S., and Sheridan, D.L. (1993). "Fatigue behavior of structural silicone sealant," Proceedings, Seventh U.S. National Conference on Wind Engineering, UCLA, Los Angeles, California, June 27-30.

Norville, H.S., Bove, P.M. and Massa, Ronald (1991). "The Resistance of Architectural Glazing to Small Bomb Blasts," *Proceedings,* Ninth ASCE Structures Congress, Indianapolis, IN, April 29-May 1, 354-357.

Beason, W.L. and Norville, H.S. (1989). "Development of a new glass thickness selection procedure," *Proceedings,* Sixth U.S. National Conference on Wind Engineering, University of Houston, Houston, TX, March 8-10, A-8-1 through A-8-16.

Liew, S.H. and Norville, H.S. (1989). "Frequency response function of a transmission tower subjected to multiple loadings," *Proceedings,* Sixth U.S. National Conference on Wind Engineering, University of Houston, Houston, TX, March 8-10, B-3-27 through B-3-35.

Norville, H.S., Minor, J.E., Vann, W.P., McDonald, J.R. and Smith, M.L. (1987). "Results of misty picture window glass experiment," *Proceedings*, Misty Picture Results Symposium, Dec. 7-9.

Mehta, K.C., Norville, H.S. and Kempner, L., Jr. (1986). "Electrical transmission structure response to wind," *Proceedings*, International Symposium on Probabilistic Methods Applied to Electric Power Systems, Toronto, Canada, June 11-13, 495-500.

Norville, H.S., Mehta, K.C. and Vann, W.P. (1986). "Wind load data for reliability based transmission line design," *Proceedings*, International Symposium on Probabilistic Methods Applied to Electric Power Systems, Toronto, Canada, June 11-13, 393-397.

Mehta, K.C. and Norville, H.S. (1985). "Electrical transmission structure response to wind," *Proceedings*, Asia Pacific Symposium on Wind Engineering, Roorkee, India, December 5-7, 1985, 59-64.

Norville, H.S., Mehta, K.C., and Vann, W.P. (1985). "Analysis and interpretation of field data of wind and response of transmission line," *Proceedings,* Fifth U.S. National Conference on Wind Engineering, Lubbock, TX, November 6-8, 3B-33 through 3B-40.

Publications

Proceedings (Cont'd)

Minor, J.E., Norville, H.S. and Walker, G.R. (1984). "Window glass and cladding in tall buildings," *Proceedings*, Third International Conference on Tall Buildings, Hong Kong, December 10-15, 515-521.

Norville, H.S. and Liew, S.H. (1984). "Response of yielding columns to random base motion," *Proceedings*, Fifth Engineering Mechanics Specialty Conference, ASCE, August 1-3, 1157-1160.

Norville, H.S. and Minor, J.E. (1984). "Glass strength evaluation using ring-on-ring tests," *Proceedings*, Fifth Engineering Mechanics Specialty Conference, ASCE, August 1-3, 1437-1440.

Norville, H.S., Vann, W.P., Mehta, K.C., and Farwagi, A.F. (1984). "Full scale wind and structural response data," *Proceedings*, Fifth Engineering Mechanics Specialty Conference, ASCE, August 1-3, 611-614.

Norville, H.S. (1984). "Column response due to random base excitation," *Proceedings*, Fourth ASCE Specialty Conference, ASCE, Jan. 11-13, 397-400.

Vann, W.P., Mehta K.C. and Norville, H.S. (1984). "Wind effects in reliability design of power lines," *Proceedings*, Fourth ASCE Specialty Conference, ASCE, Jan. 11-13, 296-299.

Norville, H.S., Mehta, K.C. and Vann, W.P. (1983). "Reliability based design of transmission lines for wind," *Proceedings*, Fourth Engineering Mechanics Specialty Conference, ASCE, Vol. II, May 23-25, 887-890.

Norville, H.S. and Minor, J.E. (1983). "A failure theory for window glass plates," *Proceedings*, Fourth Engineering Mechanics Specialty Conference, ASCE, Vol. II, May 23-25, 1001-1004.

Publications

Presentations

Norville, H.S. and Morse, S.M. (2009): A model to describe the load resistance (strength) of heat treated architectural glass," Glass Performance Days, Tampere Finland, June 12-16.

Norville, H.S., (2007): "Glazing for extreme conditions," Invited Presentation at Engineered Transparency, Columbia University, New York, New York, September 27-28.

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