CIVIL AND CONSTRUCTION ENGINEERING

O R E G O N S T A T E U N I V E R S I T Y

College of Engineering

MILLER, Thomas H. **BIRTH DATE**
Associate Professor Emeritus September 7, 1958

DEGREES

B.S. (with distinction), Civil Engineering, Cornell University, Ithaca, NY, May 1980
M.Eng. Civil Engineering, Cornell University, Ithaca, NY, May 1981
Ph.D. Civil Engineering, Cornell University, Ithaca, NY, January 1990

ACADEMIC POSITIONS

Associate Professor Emeritus, School of Civil and Construction Engineering, Oregon State University, 2021-present.
Associate Professor, School of Civil and Construction Engineering, Oregon State University, 1996-2021
Adjunct Faculty, Department of Wood Science and Engineering, Oregon State University, 2012-present
Assistant Head for Civil Engineering, School of Civil and Construction Engineering, Oregon State University, 2006-2015
Assistant Professor, Department of Civil Engineering, Oregon State University, 1989-1996

NON-ACADEMIC POSITIONS

Structural Engineer, CH2M-Hill, Corvallis, OR, 2001-2002, 2004-2008.
Civil Engineering Officer, 174th Tactical Fighter Wing, New York Air National Guard, Civil Engineering Squadron, 1986-1989.
Research Structural Engineer and Chief of Structural Response Section, Civil Engineering Research Division, Air Force Weapons Laboratory, Kirtland AFB, New Mexico, 1983-1985.
Survivability Initiatives Staff Officer, HQ United States Air Forces in Europe, Ramstein Air Base, Germany, 1981-1983.

FIELDS OF SPECIALIZATION

Structural Engineering: Analysis, Behavior and Mechanics
Earthquake Engineering
Wood Structures
Cold-Formed Steel Structures
Reinforced Concrete Bridges
Protective Structures

PROFESSIONAL ACTIVITIES

Registration

Professional Engineer, Oregon (Retired) (No. 14,996)

Professional Societies

American Society of Civil Engineers, 1980-present
Fellow, 2022-present
Life Member, 2024-present
Committee on Cold-Formed Members, 1996-2003, 2005-2014
Chair, 1998-2001

Structural Engineering Institute, 1997-present
Faculty Advisor, OSU Student Chapter, 1997-2023
Faculty Advisor, OSU Steel Bridge Team, 1992-2023
American Society for Engineering Education, 1990-2009
American Iron and Steel Institute, 1992-2023
Consortium of Universities for Research in Earthquake Engineering, 2001-2003
Earthquake Engineering Research Institute, 1992-2013
Faculty Advisor OSU Student Chapter, 1992-2014
Forest Products Society, 1995-1996
Pacific Earthquake Engineering Research Center
Undergraduate Internship Subcommittee, 1999-2001
Structural Engineers Association of Oregon, 1993-present
Wood Design Advisory Committee, 1990-1995, 1999-2004

Professional Recognition

ASCE Oregon Section Engineer of the Year, 2024
OSU CCE Teaching Excellence Award, 2019
FPS Markwardt Wood Engineering Award, 2011
ASCE Oregon Section Government Engineer of the Year, 2010
SWST George Marra Award for Excellence in Writing, 2010
ASCE Student Chapter Teacher of the Year, 2005,2006,2007,2015,2016,2017,2018,2019,2021
ASCE Outstanding Faculty Advisor Award (national), 2016, 2019
ASCE Region 8 Outstanding Faculty Advisor Award, 2009, 2010, 2011, 2012, 2013, 2014
ASCE Zone IV Outstanding Faculty Advisor Award, 1999, 2003, 2006
ASCE Faculty Advisor Certificate of Commendation, 2004, 2005, 2007, 2008
Loyd Carter Award for Outstanding Teaching, OSU College of Engineering, 1997
Mortar Board Top Prof, 1997, 2003
Truss Plate Institute Annual Award for Excellence in Truss Research, 1995
Austin-Paul Engineering Faculty Award, OSU College of Engineering, 1991, 2017
L.L. Stewart Faculty Development Award, 1990, 1998
Andrew D. White Fellow, Cornell University, 1985-1987
Air Force Commendation Medal, 1983
Graduated first in the College of Engineering, Cornell University, 1980
Fuertes Medal Undergraduate, Cornell University, 1980
Distinguished Graduate of Air Force ROTC, Cornell University, 1980
Chi Epsilon, 1980
Tau Beta Pi, 1979-present
Faculty Advisor OSU Student Chapter, 1991-1995

PUBLICATIONS

Technical Journals

C. Beairsto, R. Gupta, T.H. Miller (2022), "Monotonic and Cyclic Behavior of Cross-Laminated Timber Diaphragms," *Practice Periodical on Structural Design and Construction*, 27(2)/ DOI:10.1061/(ASCE)SC.1943-5576.0000658, 14 pp.

J. Holman, R. Gupta, T.H. Miller (2021), "Load Paths in Light-Frame Wood House with Complex Geometry," Technical Note, *J. Architectural Engineering*, 27(2). DOI: 10.1061/(ASCE)AE.1943-5568.0000461, 6 pp.

D. Fitzgerald, A. Sinha, T.H. Miller, J.A. Nairn (2021), "Axial Slip-Friction Connections for Cross-Laminated Timber," *Engineering Structures*, Vol. 228, February. https://doi.org/10.1016/j.engstruct.2020.111478, 9 pp.

D. Fitzgerald, T.H. Miller, A. Sinha, J.A. Nairn (2020), "Cross-Laminated Timber Rocking Walls with Slip-Friction Connections, *Engineering Structures*, Vol. 220, October. https://doi.org/10.1016/j.engstruct.2020.110973, 10 pp.

D. Fitzgerald, A. Sinha, T.H. Miller, J.A. Nairn (2020), "Toe-Screwed Cross-Laminated Timber Shear Wall Design and Tri-Linear Pushover Modeling," *Journal of Structural Engineering*, 146(7). DOI: 10.1061/(ASCE)ST.1943-541X.0002683. 12 pp.

D. Fitzgerald, A. Sinha, T.H. Miller, J.A. Nairn (2020), "Toe-Screwed Cross-Laminated Timber Connection Design and Non-Linear Modeling, *Journal of Structural Engineering*, 146(6). DOI: 10.1061/(ASCE)ST.1943-541X.0002656. 13 pp.

T. Hyunh, R. Gupta, T.H. Miller, M.C. Lewis (2018), "Lateral Load Path Analysis: Practical Methods for Light-Frame Modular Structures," *Journal of Architectural Engineering*, 24(4). https://doi.org/10.1061/(ASCE)AE.1943-5568.0000328.

K. Sullivan, R. Gupta, T. Miller (2018), "Behavior of Cross-Laminated Timber Diaphragm Connections with Self-Tapping Screws," *Engineering Structures*, doi:10.1016/j.engstruct.2018.04.094, pp. 505-524.

K. Walker, T.H. Miller, R. Gupta (2018) "Development of Virtual Visual Sensors for Wood Structural Health Monitoring," *Journal of Testing and Evaluation*, "46(1), pp. 24-32.

K. Milaj, A. Sinha, T.H. Miller, and J.A. Tokarczyk (2017), "Environmental Utility of Wood Substitution in Commercial Buildings using Life-Cycle Analysis," *Wood and Fiber Science*, 49(3), pp. 338-358.

W.J. Kirkham, T.H. Miller, and R. Gupta (2016), "Practical Analysis for Horizontal Diaphragm Design of Wood-Frame, Single-Family Dwellings, *Practice Periodical on Structural Design and Construction,* 21(1), 04015005.

W.J. Kirkham, R. Gupta, and T.H. Miller (2014), "Effects of Roof Pitch and Gypsum Ceilings on the Behavior of Wood Roof Diaphragms," *Journal of Performance of Constructed Facilities*, 29(1), 0414039.

B.P. Malone, T.H. Miller, and R. Gupta (2014), "Gravity and Wind Load Path Analysis of a Light-Frame and a Traditional Timber Frame Building," *Journal of Architectural Engineering*, 20(4), B4013001, 1-10.

B.P. Malone, R. Gupta, T.H. Miller, and M.E. Puettmann (2014), "Environmental Impact Assessment of Light-Frame and Timber Frame Buildings, *Journal of Green Building*, 9(2), 102-123.

K. Alldritt, A. Sinha, T.H. Miller (2014), "Designing a Strand Orientation Pattern for Improved Shear Properties of Oriented Strand Board," *Journal of Materials in Civil Engineering*, 26(7), 04014022, 1-9.

W. Kirkham, R. Gupta, and T.H. Miller (2014), "State-of-the-Art: Seismic Behavior of Wood-Frame Residential Structures," *Journal of Structural Engineering*, 140(4), doi: 10.1061/(ASCE)ST.1943-541X.0000861

K. Pfretzschner, R. Gupta, and T.H. Miller (2014), "Practical Modeling for Load Paths in a Realistic, Light-Frame Wood House, *Journal of Performance of Constructed Facilities*, June, 28(3), 430-439.

T. Polocoser, T.H. Miller, and R. Gupta (2013), "Evaluation of Remediation Techniques for Circular Holes in the Webs of Wood I-Joists," *Journal of Materials in Civil Engineering*, 25(12): 1898-1909.

K. Lucksiri, T.H. Miller, R. Gupta, S. Pei, J.W. van de Lindt (2013): "Implementation of Plan Irregularity Rapid Visual Screening for Wood-Frame, Single-Family Dwellings," *Journal of Earthquake Engineering*, 17(4), 497-516.

A. Sinha, L. Voigt, T. Miller, and R. Gupta (2012), "Neutral Axis of Full-Size Lumber with Multiple Knots," *Advances in Civil Engineering Materials,* Vol.1, No.1, pp.1-16.

K. Lucksiri, T.H. Miller, R. Gupta, S. Pei, and J.W. van de Lindt (2012), "A Procedure for Rapid Visual Screening for Seismic Safety of Wood-Frame Dwellings with Plan Irregularity," *Engineering Structures*; 36(3): 351-359.

K. Lucksiri, T.H. Miller, R. Gupta, S. Pei, and J.W. van de Lindt (2012), "Effect of Plan Configuration on Seismic Performance of Single-Story, Wood-Frame Dwellings," *Natural Hazards Review*, 13(1): 24-33.

T. Potisuk, C. Higgins, T.H. Miller, and S.C. Yim (2011), "Finite Element Analysis of Reinforced Concrete Beams with Corrosion Subjected to Shear," *Advances in Civil Engineering*, Article ID 706803, 14 pp., doi:10.1155/2011/706803.

K.B.D. White, T.H. Miller and R. Gupta (2010), "Effects of Dead Load and Multiple Earthquake Loadings on Seismic Performance of Wood-Frame Shear Walls," *Forest Products Journal*, 60(2): 150-156.

S.C. Betts, T.H. Miller and R. Gupta (2010), "Location of the Neutral Axis in Wood Beams – A Preliminary Study," *Wood Material Science and Engineering*, 5:3, 173-180.

K. Chansawat, T. Potisuk, T.H. Miller, S.C. Yim and D.I. Kachlakev (2009), "FE Models of GFRP and CFRP Strengthening of Reinforced Concrete Beams," *Advances in Civil Engineering*, Article ID 152196, 13 pp., doi:10.1155/2009/152196.

K.B. White, T.H. Miller, and R. Gupta (2009), "Seismic Performance Testing of Partially and Fully Anchored Wood-Frame Shear Walls," *Wood and Fiber Science*, 41(4): 396-413.

M.C. Lewis, R. Gupta and T.H. Miller (2009), "Performance of Wood Frame Wall with Thin ECC Shear Panel," *Practice Periodical on Structural Design and Construction*, ASCE, 14(3): 123-12909.

P. Seaders, T.H. Miller and R. Gupta (2009), "Performance of Partially and Fully Anchored Wood-Frame Shear Walls under Earthquake Loads," *Forest Products Journal*, 59(5): 42-52.

P. Seaders, R. Gupta and T.H. Miller (2009), "Monotonic and Cyclic Load Testing of Partially and Fully Anchored Wood-Frame Shear Walls," *Wood and Fiber Science*, 41(2): 145-156.

N. Wallace, and T.H. Miller (2008), "Seismic Screening of Public Facilities in Western Oregon Counties," *Practice Periodical on Structural Design and Construction,* ASCE, 13(4): 189-197.

P. Baxter, T.H. Miller, and R. Gupta (2007), "Seismic Screening, Evaluation, Rehabilitation and Design Provisions for Wood-Framed Structures, "*Practice Periodical on Structural Design and Construction*, ASCE, 12(4): 200-209.

R.J. Leichti, K. Kleemann, and T.H. Miller (2007). "Boundary condition role in tests of wood compression webs," *Journal of Testing and Evaluation*, 35(5):539-543.

K. Chansawat, S.C.S. Yim and T.H. Miller (2006), "Nonlinear Finite Element Analysis of a FRP-Strengthened Reinforced Concrete Bridge," *Journal of Bridge Engineering*, ASCE, 11(1), pp. 21-32.

C. Higgins, T.K. Daniels, D.V. Rosowsky, T.H. Miller and S.C. Yim (2005), "Assessment and Risk Ranking of Conventionally Reinforced Concrete Bridges for Shear," *Transportation Research Record*, No. 1928, pp. 110-117.

R.J. Scott, R.J. Leichti and T.H. Miller (2005), "Finite Element Modeling of Log Wall Lateral Force Resistance," *Forest Products Journal*, 55(9), pp. 48-54.

M.J. Donahue, S.E. Dickenson, T.H. Miller and S.C. Yim (2005), "Implications of the Observed Seismic Performance of a Pile Supported Warf for Numerical Modeling," *Earthquake Spectra*, EERI, Vol. 21, No. 3, pp. 617-634.

R. Gupta, T.H. Miller and M.R. Kittel (2005), "Small-Scale Modeling of Metal-Plate-Connected Wood Truss Joints," *Journal of Testing and Evaluation*, ASTM, Vol. 33, No. 3, pp. 139-149.

R.J. Scott, R.J. Leichti and T.H. Miller (2005), "An Experimental Investigation of Foundation Anchorage Details and Base Shear Capacity for Log Buildings," *Forest Products Journal*, pp. 38-45.

R. Gupta, T.H. Miller and S.M.W. Freilinger (2004), "Short-term Cyclic Performance of Metal-Plate-Connected Wood Truss Joints, "*Structural Engineering and Mechanics - An International Journal*, Vol. 17, No. 5, pp. 627-639.

R. Gupta, T.H. Miller and M.J. Redlinger (2004), "Behavior of Metal-Plate-Connected Wood Truss Joints under Wind and Impact Loads," *Forest Products Journal*, Vol. 54, No. 3, pp. 76-84

J.D. Langlois, R. Gupta, and T.H. Miller (2004), "Effects of Reference Displacement and Damage Accumulation in Wood Shear Walls," *Journal of Structural Engineering*, ASCE, Vol. 130, No. 3, pp. 470-479.

R. Gupta, T.H. Miller and D. Dung (2004), "Practical Solution to Wood Truss Assembly Design Problems," *Practice Periodical on Structural Design and Construction*, ASCE, Vol. 9, No. 1, pp. 54-60.

R. Gupta, L.R. Heck, and T.H. Miller (2002), "Experimental Evaluation of the Torsion Test for Determining Shear Strength of Structural Lumber," *Journal of Testing and Evaluation*, ASTM, Vol. 30, No. 4, pp. 283-290.

R. Gupta, L.R. Heck, and T.H. Miller (2002), "Finite-Element Analysis of the Stress Distribution in a Torsion Test of Full-Size, Structural Lumber," *Journal of Testing and Evaluation*, ASTM, Vol. 30, No. 4, pp. 291-302.

Y.K. Lee and T.H. Miller (2001), "Axial Strength Determination for Gypsum-Sheathed, Cold-Formed Steel Wall Stud Composite Panels," *Journal of Structural Engineering*, ASCE, Vol. 127, No. 6, pp. 608-615.

Y.K. Lee and T.H. Miller (2001), "Limiting Heights for Gypsum-Sheathed, Cold-Formed Steel Wall Studs," *Practice Periodical on Structural Design and Construction*, ASCE, Vol. 6, No. 2, pp. 83-89.

M.E. Waltz, Jr., T.E. McLain, T.H. Miller, and R.J. Leichti (2000), "Discrete Bracing Analysis for Light-Frame Wood-Truss Compression Webs," *Journal of Structural Engineering*, ASCE, Vol. 126, No. 9, pp. 1086-1093.

W.J. Kirkham and T. H. Miller (2000), "Examination of AISC LRFD Shear Lag Design Provisions," *Engineering Journal*, AISC, Vol. 37, No. 3, pp. 83-98.

Z. Li, R. Gupta, and T.H. Miller (1998), "A Practical Approach to Modeling of Wood Truss Roof Assemblies," *Practice Periodical on Structural Design and Construction*, ASCE, Vol. 3, No. 3, pp. 119-124.

M. Vatovec, T.H. Miller, R. Gupta, and S. Lewis (1997), "Modeling of Metal-Plate-Connected Wood Truss Joints: Part II - Application to Overall Truss Model," *Transactions of the ASAE*, Vol. 40, No. 6, pp. 1667-1675.

M.E. Magaña, P. Volz, and T.H. Miller (1997), "Non-linear Decentralized Control of a Flexible Cable-Stayed Beam Structure," *Journal of Vibration and Acoustics*, ASME, Vol. 119, No. 4., pp. 523-526.

S.M. Kent, R. Gupta, and T.H. Miller (1997), "Dynamic Behavior of Metal-Plate-Connected Wood Truss Joints," *Journal of Structural Engineering*, ASCE, Vol. 123, No. 8, pp. 1037-1045.

M. Vatovec, T.H. Miller, and R. Gupta (1996), "Modeling of Metal-Plate-Connected Wood Truss Joints," *Transactions of the ASAE*, ASAE, Vol. 39, No. 3, pp. 1101-1111.

M. Vatovec, R. Gupta, and T.H. Miller (1996), "Testing and Evaluation of Metal-Plate-Connected Wood Truss Joints," *Journal of Testing and Evaluation*, ASTM, Vol. 24, No. 2, pp. 63-72.

B. Kasal and T.H. Miller (1995), "Stress Design of Wood Beam-Columns Using Exact Second-Order Moments," *Forest Products Journal*, Vol. 45, No. 7/8, pp. 51-53.

T.H. Miller and T. Pekoz (1994), "Behavior of Gypsum-Sheathed Cold-Formed Steel Wall Studs," *Journal of Structural Engineering*, ASCE, Technical Note, Vol. 120, No. 5, pp. 1644-1650.

T.H. Miller and T. Pekoz (1994), "Load Eccentricity Effects on Cold-Formed Steel Lipped-Channel Columns," *Journal of Structural Engineering*, ASCE, Vol. 120, No. 3, pp. 805-823.

T.H. Miller and T. Pekoz (1994), "Unstiffened Strip Approach for Perforated Wall Studs," *Journal of Structural Engineering,* ASCE, Vol. 120, No. 2, pp. 410-421.

T.H. Miller and T. Pekoz (1993), "The Behavior of Cold-Formed Steel Wall Stud Assemblies," *Journal of Structural Engineering,* ASCE, Vol. 119, No. 2, pp. 641-651.

Conferences

C. Beairsto, T. Miller, and R. Gupta, "Large-Scale Monotonic and Cyclic Testing of CLT Diaphragms," Tallwood Design Institute Symposium, October 10, 2019.

D. Fitzgerald, A. Sinha, T. H. Miller, and J. Nairn, "Cross-Laminated Timber Rocking Walls with Slip-Friction Connections," ASCE Structures Congress," Orlando, FL, April 25-27, 2019.

D. Fitzgerald, A. Sinha, T. H. Miller, and J. Nairn, "Design and Testing of Toe-Screwed Cross-Laminated Timber Shear Walls," Poster at International Mass Timber Conference, "Portland, OR, March 19-21, 2019.

D. Fitzgerald, A. Sinha, T. H. Miller, and J. Nairn, "Cross-Laminated Timber Rocking Walls with Slip-Friction Connections (SFCs)," Poster at International Mass Timber Conference, "Portland, OR, March 19-21, 2019.

C. Beairsto, T. H. Miller, and R. Gupta, "Monotonic and Cyclic Testing of Large-Scale CLT Diaphragms," Poster at International Mass Timber Conference, "Portland, OR, March 19-21, 2019.

A. Sinha, T.H. Miller, K. Milaj, and J. Tokarczyk, "Evaluating Environmental Impacts of Wood Substitution in Existing Buildings using Life-Cycle Analysis," World Conference on Timber Engineering, Seoul, Republic of Korea, August 20-23, 2018.

D. Fitzgerald, A. Sinha, T.H. Miller, and J. Nairn, "Viability of Toe-Screwed CLT Shear Wall Connections," Poster at 2018 International Mass Timber Conference, Portland, OR, March 20-22, 2018.

C. Beairsto, T. Miller, and R. Gupta, "Monotonic and Cyclic Testing of Full-Scale CLT Diaphragms," Poster at 2018 International Mass Timber, Portland, OR, March 20-22, 2018.

K. Sullivan, T.H. Miller, and R. Gupta, "Behavior of Cross-Laminated Timber Diaphragm Panel Connections with Self-Tapping Screws," 2016 *World Conference on Timber Engineering,* 8 pp.

K. Milaj, A. Sinha, and T. Miller, "Assessment of Environmental Impacts of Wood Substitution in Commercial Construction," *70th International Convention of the Forest Products Society*, June 27-29, 2016.

K. Sullivan, R. Gupta, and T. Miller, "Behavior of Cross-Laminated Timber Diaphragms, Poster at *70th International Convention of the Forest Products Society*, June 27-29, 2016.

K. Sullivan, R. Gupta, and T. Miller, "CLT Diaphragm Panel-To-Panel Connections," *58th International Convention, Society of Wood Science and Technology*, June 7-12, 2015.

T. Huynh, T.H. Miller, and R. Gupta, "Modular Structure: Wind Load Analysis," *58th International Convention, Society of Wood Science and Technology*, June 7-12, 2015.

K. Walker, T.H. Miller, and R. Gupta, "Use of Virtual Visual Sensors in the Determination of Natural Frequencies of Timber Structures," *58th International Convention, Society of Wood Science and Technology*, June 7-12, 2015.

W.J. Kirkham, T.H. Miller, and R. Gupta, "Practical Limits on Torsion in Woodframe Single Family Dwellings, *ASCE Structures Congress*, Boston, MA, April 3-5, 2014.

B.J. Malone, R. Gupta and T. H. Miller, "Timber Frame versus Light Frame: A Study in Quantifying the Differences between Wood Structural Systems through Life Cycle Assessment (LCA) and Structural Analysis Modeling," *Timber Frame Engineering Council Symposium*, Burlington, VT, August 8, 2013.

R. Gupta, K. Pfretzschner, T. Miller, D. Prevatt, J. van de Lindt, "Practical Modeling Load Paths in a Light-Frame Wood House," *Proc. First International Conference on Performance-Based and Life-cycle Structural Engineering*, Hong Kong, December 5-7, 2012, 33 pp.

K. Alldritt, A. Sinha, and T.H. Miller, "The Effect of Strand Orientation on Structural Performance of Oriented Strand Board: Off-Axis Alignment," Poster at *Forest Products Society 66th International Convention*, Washington, DC, June 3-5, 2012.

W. Kirkham, R. Gupta, and T. Miller, "Stiffness of Pitched Wood Roof Diaphragms," Poster at *Forest Products Society 65th International Convention*, Portland, OR, June 19-21, 2011.

K. Pfretzschner, R. Gupta, and T. Miller, "Evaluation of Critical Load Paths and System Effects in a Wood-Framed House with Realistic, Complex Geometry," Poster at *Forest Products Society 65th International Convention*, Portland, OR, June 19-21, 2011.

K. Lucksiri, T.H. Miller, and R. Gupta, "Rapid Visual Screening for Plan Irregularity for Single-Family, Wood-Frame Dwellings," Poster at *Forest Products Society 65th International Convention*, Portland, OR, June 19-21, 2011.

K. Lucksiri, T.H. Miller and R. Gupta, "Effect of Plan Configuration on Seismic Performance of Single-Family Wood-Frame Dwellings," Poster at *Conference on Improving the Seismic Performance of Existing Buildings and Other Structures*, organized by Applied Technology Council and ASCE-SEI, San Francisco, CA, December 9-11, 2009.

S. Frey and T.H. Miller, "Structural Engineering Instruction: From the Outside In," *Proceedings of the 2005 ASEE Annual Conference and Exposition*, Portland, OR, June, 2005, 8 pp.

C. Higgins, T.K. Daniels, D. Rosowsky, T.H. Miller and S.C. Yim, "Assessment and Risk-Ranking of Conventionally Reinforced Concrete Bridges for Shear," 84th Annual Meeting of the Transportation Research Board, Washington, DC, January 2005.

R. Gupta, T.H. Miller, P. Seaders, K. White and M. Clauson, "Seismic Performance of Wood Shear Walls," *Biographies and Abstracts, Forest Products Society 58th Annual Meeting*, Grand Rapids, Michigan, June, 2004.

C. Eiden, R. Leichti, T. Miller, M. Clauson, "Dynamic Analysis of Heavy Timber Structures with Friction Dampers," *Proceedings of the 8th World Conference on Timber Engineering*, Lahti, Finland, June, 2004, Vol. II, pp. 475-480.

P. Seaders, R. Gupta and T. Miller, "Performance of Code-Prescribed Wood Shear Walls," *Proceedings of the 8th World Conference on Timber Engineering*, Lahti, Finland, June, 2004, Vol. I, pp. 123-128.

M.J. Donahue, S.E. Dickenson, T.H. Miller, S.C. Yim, "Comparison of 3D Non-Linear Modeling to Recorded Seismic Response for a Pile Supported Wharf," *Proceedings of Ports 2004 Conference- Port Development in the Changing World*, ASCE, Houston, TX, May2004, 10 pp.

J.L. Langlois, R. Gupta, and T.H. Miller, "Reference Displacement Effects in Wood Shear Walls Subjected to the CUREE Protocol," *Proceedings of the 7th World Conference on Timber Engineering*, Shah Alam, Malaysia, August 2002, pp. 447-454.

R.J. Leichti, A. Tjahyadi, A. Bienhaus, R. Gupta, T. Miller, and S. Duff, "Design and Behavior of Friction Dampers for Two-Dimensional Braced and Moment-Resisting Timber Frames," *Proceedings of the 7th World Conference on Timber Engineering*, Shah Alam, Malaysia, August 2002, pp. 267-274.

T. Potisuk, D.I. Kachlakev, T.H. Miller, and S.C.S. Yim, "Experimental Verification of FE Models of FRP Strengthened RC Beams," *Proceedings of the Society for Experimental Mechanics Annual Conference on Experimental and Applied Mechanics*, Portland, OR, June 2001, pp. 620-623.

K. Chansawat, D.I. Kachlakev, T.H. Miller, and S.C.S. Yim, "FE Modeling and Experimental Verification of an FRP Strengthened Bridge," *Proceedings of the Society for Experimental Mechanics Annual Conference on Experimental and Applied Mechanics*, Portland, OR, June 2001, pp. 624-627.

T. Potisuk, D.I. Kachlakev, T.H. Miller, and S.C.S. Yim, "Effects of Shear Strengthening with GFRP on Reinforced Concrete Beams," *Proceedings of the 46th International Symposium of the Society for the Advancement of Material and Process Engineering*, Long Beach, CA, May 2001, pp. 1759-1771.

K. Chansawat, D.I. Kachlakev, T.H. Miller, and S.C.S. Yim, "FEA of the Horsetail Creek Bridge Strengthened with FRP Laminates," *Proceedings of the 46th International Symposium of the Society for the Advancement of Material and Process Engineering*, Long Beach, CA, May 2001, pp. 1772-1783.

D. Dung, R. Gupta and T.H. Miller, "A Practical Method to Model the System Effects of a Metal-Plate-Connected Wood Truss Assembly," ASAE Paper No. 004039, *ASAE Annual International Meeting*, Milwaukee, July 2000.

Y.K. Lee and T.H. Miller, "Nominal Axial Strength Evaluation for Wall-Braced Wall Stud Column," *Proceedings of the 1999 Conference sponsored by the Korean Society of Civil Engineers*, Kyung-Ju City, South Korea, October 1999, pp. 189-192.

M. Redlinger, R. Gupta, and T.H. Miller, "Performance of Metal-Plate-Connected Wood Truss Heel Joints Under Wind and Impact Loads," *Proceedings of the RILEM Symposium on Timber Engineering*, Stockholm, Sweden, September 1999.

M.E. Waltz, T.E. McLain, T.H. Miller and R.J. Leichti, "Validating Procedures for Compression Web Bracing in Light Frame Wood Trusses," *Proceedings of the Pacific Timber Engineering Conference*, Rotura, New Zealand, March 1999.

M.R. Kittel, R. Gupta, and T.H. Miller, "Small-Scale Modeling of Metal-Plate-Connected Wood Truss Joints," *Proceedings of the World Conference on Timber Engineering*, Montreux, Switzerland, August 1998, 2 pp.

L.R. Heck, R. Gupta, and T.H. Miller, "The Shear Strength of Full-Scale Structural Lumber Using Torsion Tests," *Proceedings of the World Conference on Timber Engineering*, Montreux, Switzerland, August 1998, 8 pp.

S. Freilinger, R. Gupta, and T.H. Miller, "Cyclic Performance of Wood Truss Joints," *Proceedings of 'Building to Last: Structures Congress XV,'* Vol. 2, ASCE, Portland, OR, April 1997, pp. 939-943.

S.M. Kent, R. Gupta and T.H. Miller, "Earthquake Effects on Metal-Plate-Connected Wood Truss Joints," *Proceedings of 'Earthquake Performance and Safety of Timber Structures,'* Forest Products Society, Madison, WI, 1997, pp. 92-100.

Z. Li, R. Gupta, and T.H. Miller, "A Practical Approach to Model Wood Truss Roof Assemblies," *Proceedings of the International Wood Engineering Conference*, New Orleans, LA, October 1996, pp. 1-259 to 1-266.

S.M. Kent, R. Gupta, and T.H. Miller, "Dynamic Behavior of Metal-Plate-Connected Wood Truss Joints," *Proceedings of the International Wood Engineering Conference*, New Orleans, LA, October 1996, pp. 1-115 to 1-122.

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P. Limkatanyoo and T. H. Miller, "Integrated Visualization of Structural Behavior," Oregon State University, CCEE Department, Corvallis, OR, October 2000, 173 pp.

T.H. Miller and Y.K. Lee, "Testing of Cold-Formed Steel Slide Clip Connections," Dept. of Civil, Construction and Environmental Engineering, Oregon State University, September 1999, 11 pp.

N. Charoenmak and T.H. Miller, "Finite Element Modeling of Cold-Formed Steel Stub Columns with Various Shapes and Sizes of Web Perforations," Department of Civil, Construction and Environmental Engineering, Oregon State University, January 1999, 148 pp.

B.A. Vinson and T.H. Miller, "Pilot Project: Eugene-Springfield Earthquake Damage and Loss Estimate," Department of Civil, Construction and Environmental Engineering, Oregon State University, January 1999, 47 pp., and Data Appendix, HAZUS Input/Output Appendix.

E.W. Tornberg and T.H. Miller, "Engineering Analysis for the Manufactured Home Anchoring Task Force," Department of Civil, Construction and Environmental Engineering, Oregon State University, July 1998, 88 pp.

Y.K. Lee and T.H. Miller, "Final Report on Composite Wall Tests," Department of Civil, Construction and Environmental Engineering, Oregon State University, July 1997, 175 pp.

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R. Gupta, M. Vatovec, and T.H. Miller, "Metal-Plate-Connected Wood Joints: A Literature Review," Forest Research Laboratory, Research Contribution 13, Oregon State University, April 1996, 37 pp.

Y.K. Lee and T.H. Miller, "Analysis of Gypsum-Sheathed Cold-Formed Steel Wall Stud Panels," Dept. of Civil Engineering, Oregon State University, October 1995, 226 pp.

J.M. Neuschwander and T.H. Miller, "Pressure Vessel Supports: A Seismic Evaluation for Oregon," Dept. of Civil Engineering, Oregon State University, July 1995, 98 pp.

K. Sucharitsanchai, S.R. Trautwein, and T.H. Miller, "Seismic Analysis, Conceptual Design and Cost Estimate for Rehabilitation of URM Buildings on the OSU Campus," Dept. of Civil Engineering, Oregon State University, July 1995, 213 pp.

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T.H. Miller, G. Ch-ng, J. Ferguson, "Structural Evaluation of Student Life Facilities at Oregon State University for Potential Seismic Hazards," Dept. of Civil Engineering, Oregon State University, August 1992, 176 pp.

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T.H. Miller, J. Ferguson, A. Mann, J. Henegar, "Structural Evaluation of Academic Facilities at Oregon State University for Potential Seismic Hazards," Dept. of Civil Engineering, Oregon State University, February 1992, pp. 623 pp.

T.H. Miller, J. Ferguson, A. Mann, D. Arguedas, "Preliminary Evaluation of Academic Facilities at Oregon State University for Potential Seismic Hazards," Dept. of Civil Engineering, Oregon State University, December 1991, 209 pp.

T.H. Miller, "Testing of Cold-Formed Steel Wall Stud Panels Subject to Lateral Loadings," Final Report for Metal Stud Manufacturer's Association, Dept. of Civil Engineering, Oregon State University, Corvallis, OR, October 1990, 124 pp.

T.H. Miller, "Behavior of Cold-Formed Steel Wall Stud Assemblies Subject to Eccentric Axial Loads," Ph.D. Dissertation, Cornell University, Ithaca, NY, January 1990, 288 pp.

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T.H. Miller, T. Pekoz, "Studies on the Behavior of Cold-Formed Steel Wall Stud Assemblies," Report, Cornell University, School of Civil and Environ. Engineering, Ithaca, NY, November 1989, 288 pp.

RESEARCH

"Behavior of CLT Diaphragm Panel-to-Panel Connections with Self-Tapping Screws," (PI with R. Gupta), Institute for Working Forest Landscapes, National Center for Advanced Wood Products Manufacturing and Design, March 1, 2016 – June 30, 2020 ($149,849).

"Cross-Laminated Timber Fastener Solutions for Tall Wood Buildings," (Co-PI with A. Sinha and J. Nairn), Institute for Working Forest Landscapes, National Center for Advanced Wood Products Manufacturing and Design, July 1, 2016 – June 30, 2019 ($149,976).

"Active Learning with 3-D Printed Models in Structural Engineering," (Co-PI with J. Liu and A. Barbosa), OSU Learning Innovation Grant, January 1, 2016 – October 15, 2016 ($8,349).

"Evaluation of Structural Load Paths in Wood-Frame Residential Structures," (Co-PI with R. Gupta and K. Martin), USDA Center Grant: Oregon State University Center for Wood Utilization Research, July 1, 2010 – June 1, 2012 ($55,000).

"Gypsum-Sheathed, 18 mil Cold-Formed Steel Stud Wall Testing on Supreme Framing Systems," Scafco Steel Stud Manufacturing Co. and Supreme Steel Framing System Association, July, 2009 - November, 2009 ($13,800 service and testing contract).

"Analysis of Effect of β_o on Wall Test Results," Scafco Steel Stud Manufacturing Co. and Supreme Steel Framing System Association, July, 2009 – August, 2009 ($2000 service and testing contract).

"Gypsum-Sheathed, Cold-Formed Steel Stud Wall Testing," Scafco Steel Stud Manufacturing Co., May 15, 2007 – July 31, 2008 ($80,400 service and testing contract).

"Statewide Seismic Needs Assessment Project, " Oregon Department of Geology and Mineral Industries, June 2006 – December 2006 ($77,764).

"Dynamic Performance of Wood Shear Walls Under Actual Earthquake Records," (co-PI with Rakesh Gupta), U.S. Department of Agriculture, October 2002 – November 2006 ($115,000).

"FEMA 154 Seismic Evaluations of Community Colleges," Oregon Department of Community Colleges and Workforce Development, July 2005 - December 2005 ($15,000 service and testing contract).

"Strength Deterioration Models and Repair Methods for Shear-Cracked Reinforced Concrete Bridges - Phase I," ODOT, October 2002 – June 2004, co-PI with Chris Higgins and Solomon Yim ($1,575,300).

"FEMA 154 Seismic Evaluations of Community Colleges," Oregon Department of Geology and Mineral Industries, February 15, 2004 - August 15, 2004 ($4,025 service and testing contract).

"Remaining Life of Reinforced Concrete Beams with Shear Cracks," (co-PI with Chris Higgins and Solomon Yim), Oregon Department of Transportation, September 2001–August 2003 ($160,000).

"Shear Capacity Assessment of Corrosion-Damaged Reinforced Concrete Beams," (co-PI with Chris Higgins, Solomon Yim and Albany Research Center), Oregon Department of Transportation, May 2001–December 2002 ($92,000).

"Composite Wall Testing," Steel Stud Manufacturer's Association, April 24, 2000–September 30, 2001 ($22,000 service and testing contract).

"Finite Element Method Modeling for Composite Strengthening/Retrofit of Bridges," (Co-PI with D. Kachlakev and S. Yim), Oregon Department of Transportation, July 15, 1998–March 31, 2001 ($93,979).

"Slide Clip Connection Tests," Scafco Corporation, December 12, 1998–September 30, 1999 ($3,515 service and testing contract).

"Pilot Project: Eugene-Springfield Earthquake Damage and Loss Estimate," State of Oregon Department of Geology and Mineral Industries, March 1, 1997–January 31, 1999 ($9,250).

"Engineering Services for the Manufactured Home Anchoring Task Force," State of Oregon Building Codes Division, January 1, 1998-June 15, 1998 ($13,500).

"Robust Nonlinear Decentralized Control of Cable Supported Bridge Structures," (Co-PI with A. Hernried and M. Magaña), National Science Foundation, August 15, 1993-December 31, 1997 ($204,900).

"Dynamic Characteristics of Metal-Plate-Connected Wood Joints," (Co-PI with R. Gupta), U.S. Department of Agriculture, September 15, 1994-September 30, 1997 ($85,000).

"Stub Column Testing - Pilot Project," Metal Stud Manufacturers Association, February 12, 1997-August 15, 1997 ($4000 service and testing contract).

"Vertical Testing of Composite Wall Panels Subject to Lateral Loadings," Metal Lath/Steel Framing Association, February 23, 1996-July 31, 1997 ($6,930 service and testing contract).

"Vertical Testing of Composite Wall Panels Subject to Lateral Loadings," Metal Stud Manufacturers Association, December 1, 1995-July 31, 1997 ($11,550 service and testing contract).

"Vertical Testing of Shaft Walls Subject to Lateral Loadings," Knorr Steel Framing Systems, Inc., May 20, 1996-April 30, 1997 ($4,620 service and testing contract).

"Development of Seismic Rehabilitation Master Plan for the Oregon State University Campus," Oregon State University, July 1, 1994-October 31, 1995 ($21,256).

"Static and Cyclic Testing of Cold-Formed Steel Connections," Devco Engineering, Inc., March 1, 1994-September 30, 1994 ($1600 service and testing contract).

"Preliminary Seismic Analysis and Testing of Wood Connections," (Co-PI with Rakesh Gupta), Oregon State University General Research Fund, November 1, 1993-June 30, 1994 ($4,000).

"Seismic Rehabilitation Cost-Benefit Study of Selected OSU Facilities," Oregon State University, March 1, 1992-July 1, 1993 ($29,210).

"Seismic Risk Assessment for Student Life Facilities at OSU," Oregon State University, March 1-August 1, 1992 ($5,100).

"Seismic Risk Assessment for Academic Facilities at OSU," Oregon State University, July 1, 1991-February 29, 1992 ($12,732).

"Testing of Cold-Formed Steel Wall Stud Panels Subject to Lateral Loadings," Metal Stud Manufacturer's Association, June 1-December 31, 1990 ($10,685 + $11,039 service and testing contract).

GRADUATE STUDENTS ADVISED

PhD Dissertations

Milan Vatovec	1996
Young-ki Lee	1999
Kasidit Chansawat	2003
Kraisorn Lucksiri	2012
William Kirkham	2013
Dillon Fitzgerald	2019

Master of Science Theses

Bohumil Kasal	1995
Scott Kent	1995

Leanne Heck	1997
Mark Kittel	1997
Zhong Li	1997
Mark Redlinger	1998
Shawn Freilinger	1998
Steven Trautwein	1998
Miles Waltz	1998
Tanarat Potisuk	2000
Da-ren Dung	2000
David McCurry	2000
Jeffrey Langlois	2002
Claudia Eiden	2003
Randall Scott	2003
Preston Baxter	2004
Peter Seaders	2004
Kevin White	2005
Michael Lewis	2008
Tiberiu Polocoser	2012
Kathryn Pfretzschner	2012
Brian Malone	2013
Kenton Alldritt	2013
Kristopher Walker	2015
Thanh Huynh	2016
Kristina Milaj	2016
Kyle Sullivan	2017
Sean Hollenbeck	2018
Justin Holman	2019
Cody Beairsto	2020

Master of Science Projects

John Ferguson	1993
Hi-Kong Tan	1993
Guan Ch'ng	1993
Young-ki Lee	1995
Kanok Sucharitsanchai	1995
Kris Weerakul	1995
William Kirkham	1997
Nanthaphong Charoenmak	1998
Edward Tornberg	1998
Kasidit Chansawat	1998
Praneung Limkatanyoo	2000
Troy MacKenzie	2000
Dharadon Seamanontaprinya	2001
Hoon Choi	2002
Kraisorn Lucksiri	2002
Mathew Donahue	2003
Nathan Wallace	2007
Jignesh Vadodaria	2008
Jacob Ervin	2010

OSU Honors College Projects

Brenda Shonkwiler	2001
Sara Holm	2007
Jennifer Coe	2009
Levi Voigt	2011
Stephanie Stache	2013

OSU Undergraduate Research Programs

Haley Madland	2018
Erick Moreno-Rangel	2018

TEACHING

Courses Taught at Oregon State University

CE 381	Structural Theory	CE 383	Design of Steel Structures
CE 480/580	Advanced Steel Design	CE 481/581	Reinforced Concrete I
CE 482/582	Wood Design	CE 489/589	Seismic Design
CE 533	Structural Stability	CE 534	Structural Dynamics
CEM 381	Structural Fundamentals	ENGR 211	Statics
ENGR 213	Strength of Materials		

EXPERIENCE IN CAMPUS ACTIVITIES

American Society of Civil Engineers Student Chapter, Faculty Advisor
Tau Beta Pi, Faculty Advisor
American Institute of Steel Construction Steel Bridge Team, Faculty Advisor
Earthquake Engineering Research Institute Student Chapter, Faculty Advisor
Graduate Christian Fellowship, Faculty Advisor
Faculty and Staff Chrisian Fellowship, Member
Society of Christian Engineers, Faculty Advisor

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