

**John Willem van de Lindt, Ph.D.**

George T. Abell Distinguished Professor in Infrastructure  
Department of Civil and Environmental Engineering  
Colorado State University  
Fort Collins, CO 80523-1372

Phone: 970-491-6697, Fax : 970-491-7727, email: jwv@engr.colostate.edu

**Education:**

Cal State Sacramento, Sacramento, CA	Civil Engineering	BSCE, 1993
Texas A&M University, College Station, TX	Civil Engineering	MSCE, 1995
Texas A&M University, College Station, TX	Civil Engineering	PhD, 1999

**Professional Experience:**

2012-Present George T. Abell Distinguished Professor in Infrastructure, Department of Civil and Environmental Engineering, Colorado State University, Fort Collins, CO.

2010-2012 Professor and Garry Neil Drummond Endowed Chair in Civil Engineering, Department of Civil, Construction, and Environmental Engineering, Univ. of Alabama, Tuscaloosa, AL.

2010 Professor, Department of Civil Engineering, Colorado State University, Fort Collins, CO.

2004-2010 Associate Professor, Department of Civil Engineering, Colorado State University, Fort Collins, CO (Structural Eng and Structural Mechanics Program Coordinator)

2000-2004 Assistant Professor, Department of Civil and Environmental Engineering, Michigan Technological University, Houghton, MI

1999 Research Engineer, Department of Civil Engineering, Texas A&M University, College Station, TX

1999 Structural Design Engineer, Dynacon Inc., Bryan, TX

**Products:**

*Related to Proposal*

van de Lindt, J.W., A. Graettinger, R. Gupta, T. Skaggs, S. Pryor, and K. Fridley. (2007). "Performance of Woodframe Structures During Hurricane Katrina." *ASCE Journal of Performance of Constructed Facilities*; 21(2); 108-116.

Prevatt, D.O., J.W. van de Lindt, S. Pei, R. Gupta, W. Coulbourne, S. Hensen. (2011). "Damage Assessment Following the April 27, 2011 Tuscaloosa Tornado", National Science Foundation, released via web to the media.

van de Lindt, J.W., S. Pei, T.N. Dao, A. Graettinger, D.O. Prevatt, R. Gupta, and W. Coulbourne. (2013). "Dual Objective-Based Tornado Design Philosophy." *ASCE Journal of Structural Engineering*, 139(2); 251-263.

Dao, T.N. and J.W. van de Lindt. (2010). "Methodology for Probabilistic Modeling and Quantification of Wind-Driven Rain Water Intrusion to Roof Systems During Hurricanes.". *ASCE Journal of Structural Engineering*, 136(6), 700-706.

FEMA P765, (2009). "Midwest Floods of 2008 in Iowa and Wisconsin." Mitigation Assessment Team Report, Team member and co-author.

*Significant Other*

Park, S., J.W. van de Lindt, D. Cox, and R. Gupta. (2013). "Concept of Community Survival Fragilities for Tsunami Coastal Inundation". *ASCE Natural Hazards Review*, 14 (4), 220-228.

Standohar-Alfano, C. and J.W. van de Lindt. (2013). "An Empirically-Based Probabilistic Tornado Hazard Analysis of the U.S. using 1973-2011 Data.", *Nat. Hazards Rev.*, (ASCE)NH.1527-6996.0000138.

van de Lindt, J.W., S. Pei, S.E. Pryor, H. Shimizu, and H. Isoda. (2010). "Experimental Seismic Response of a Full-Scale Six-Story Light-frame Wood Building." *ASCE Journal of Structural Engineering*, 136(10), 1262-1272.

Bahmani, P., van de Lindt, J., and Dao, T. (2014). "Displacement-Based Design of Buildings with Torsion: Theory and Verification." *J. Struct. Eng.*, 140(6), 04014020.

van de Lindt, J.W., R. Gupta, S. Pei, K. Tachibana, Y. Araki, D. Rammer, and H. Isoda. (2012). "Damage assessment of a Full-Scale Six-Story Light-Frame Wood Building Following Tri-Axial Shake Table Tests", *ASCE Journal of Performance of Constructed Facilities*, 26(1), 1-9.

## **Synergistic Activities**

J. van de Lindt served as PI and organized an NSF-funded hurricane Katrina data reconnaissance project immediately following the hurricane, was a member of FEMA's Mitigation Assessment Team (MAT) for the 2008 Midwest Floods, and participated on the Chile data reconnaissance ASCE 7 / ASCE 41 trip to Chile focusing on wood buildings and tsunami affected regions.

J. van de Lindt recently led and completed the seven-university NEES-Soft project consisting of experiments at five university labs including two major full-scale whole-building tests at NEES facilities. The SAPWood software, which is used by hundreds of researchers over five continents, was developed by J. van de Lindt and his student S. Pei as part of the NEESWood project.

J. van de Lindt led the five-university four-year NEESR05 project NEESWood. That project had extensive industry collaboration and culminated with the world largest shake table test of a 14,000 sq ft six-story PBSO building at E-defense in Japan. A direct result of that test was extensive broader impact through over 20 presentations to governments (U.S., Chile, Canada, Japan new Zealand), industry, conferences (U.S., Japan, Canada, Europe, South Africa. The project was also leveraged with over \$1M in contributions including \$450,000 in funds from foreign governments and industry.

J. van de Lindt designed/built the state of Colorado's first mid-size shake table and an NSF-funded hurricane test frame for spatio-temporal loading on structural components, assemblies, and systems at Colorado State University's Engineering Research Center. He recently designed a 5m x 5m shake table for the University of Alabama which is located in UA's new South Engineering Research Center.

J. van de Lindt is very active in supporting the Women and Minority in Engineering (WMEP) program at CSU and consistently advises undergraduates in their summer programs. He has advised numerous undergraduate research students who have gone on to graduate school. Three of his seven current Ph.D. students are women and over half of the REU's hired are women and/or ethnic minorities.

## **Collaborators and Other Affiliations:**

### **(i) Collaborators (in the preceding 48 months - alphabetically)**

Aguiniga, F. (Texas A&M University-Kingsville); Araki, Y. (Kobe University); Atadero, R.A. (CSU); Balogh, S. (Metro State-Denver); Berman, J. (Univ. of Washington); Bienkiewicz, B. (CSU); Blomgren, H-E. (ARUP); Bulleit, W.M. (MTU); Chen, S. (CSU); Coulbourne, W. (Coulbourne Consulting); Cox, D. (Oregon State University); Clausen, M. (Oregon State Univ.); Dao, T. (Univ. of Alabama); Datin, P. (RMS); Davidson, R. (Univ. of Delaware); Dolan, J.D. (Washington State University); Ellingwood, B. (CSU); Fu, G. (Wayne State University); Filiatrault, A. (State University of New York at Buffalo); Fridley, K. (Univ. of Alabama); Gershfeld, M. (Cal Poly-Pomona); Goode, J.S. (Haag Engineering Inc.); Graettinger, A. (Univ. of Alabama); Gupta, R. (Oregon State Univ.); Hartzell, S. (USGS); Heyliger, P. (CSU); Isoda, H. (Kyoto Univ.); Jiang, Y. (Industry); Li, Y. (Michigan Technological University); Line, P. (AWC); Linton, D. (Industry); Liu, H. (CSM); Luckisiri, K. (Oregon State Univ.); Luco, N. (USGS); Mahmoud, H. (CSU); Mochizuki, G. (Simpson Strong-Tie); Miller, T. (Oregon State Univ.); Niedzwecki, J.M. (Texas A&M University); Pan, Y. (SWJU-China); Pang, W. (Clemson University); Park, S. (KAIST-Korea); Popovski, M. (FPInnovations – Canada); Prevatt, D. (Univ. of Florida); Pryor, S. (Simpson Strong-Tie Co.); Dammer, D. (USDA-FPL); Ricles, J. (Lehigh University); Riley, C. (Portland State Univ.); Rosowsky, D.V. (Univ. of Vermont); Sause, R. (Lehigh Univ.); Shao, X. (Western Michigan Univ.); Shimizu, H. (Industry-Japan); Skaggs, T. (APA); Symans, M. (RPI); Tachibana, K. (Industry-Japan); Tian, J. (Industry); Vengala, J. (IPRITI-India); Wehbe, N. (South Dakota State Univ.)

### **(ii) Graduate and Postdoctoral Advisor(s)**

John M. Niedzwecki

### **(iii) Thesis Advisor and Postgraduate-Scholar Sponsor**

PD – Within Last 5 Years: Yi Pan; Sangki Park; Thang Dao; Shiling Pei, Rebecca Atadero; Total (5)

Ph.D. – Wei Liang; Negar Nazari; Elaina Jennings; Trung Do; Christine Alfano; Pouria Bahmani, Shiling Pei (Colorado School of Mines), Hongyan Liu (Colorado School of Mines), Jonathan Goode, Saharat Buddhawana, Thang Dao (University of Alabama), Sangki Park; Total (12).

M.S. - Yingmin Zhou, Matthew A. Walz, Eric G. Goh, Henrique A. de Melo e Silva, Matthew Lewis, Sridhar Kethu, Kriselda Cuellar, Jason Huart, Thang Nuygen Dao, Rachel Garcia, Mason Taggart, Cullen Choi, Aaron Potts; Sangki Park; M. Omar Amini; Jose' Mazariegos; Chris Bright; Vaishak Gopi; Total (18).