

## Curriculum Vitae

John W. van de Lindt, Ph. D., F. ASCE, F. SEI

July 2021

**Harold H. Short Endowed Chair Professor**  
**Co-Director, Center for Risk-Based Community Resilience Planning**  
**Department of Civil and Environmental Engineering**  
**Colorado State University**  
**Campus Delivery 1372**  
**Fort Collins, CO 80523-1372; USA**  
**Office: 1.970.491.6697**  
**Email: [jwv@colostate.edu](mailto:jwv@colostate.edu)**  
**Pronouns: he/him/his**

### Biographical Summary

Dr. John W. van de Lindt is the Harold H. Short Endowed Chair in the Department of Civil and Environmental Engineering at Colorado State University. He formerly was the George T. Abell Distinguished Professor in Infrastructure at CSU and as a Professor at the University of Alabama he held the Garry Neil Drummond Endowed Chair in Civil Engineering. He has also previously served on the faculty at Colorado State University and Michigan Technological University. Over the last two decades Dr. van de Lindt's research program has sought to improve the built environment by making structures and structural systems perform to the level expected by their occupants, government, and the public. This has been primarily through the development of performance-based engineering and test bed applications of building systems for earthquakes, hurricanes, tsunamis, tornadoes and floods. To accomplish this has necessitated coupling nonlinear dynamics, including stochastic approaches in both time and space with structural reliability during extreme loading events. His work includes both the development of new nonlinear numerical models and experimental investigations to calibrate those models and support hypotheses. Over the last twenty years he has successfully procured/led federal, state, and industry sponsored projects totaling approximately \$50M. As a result of these projects he has published approximately 450 technical publications including more than 200 peer reviewed journal papers in scholarly journals such as the *Journal of Structural Engineering*, *Journal of Performance of Constructed Facilities*, *Engineering Structures*, *Structural Safety*, *Natural Hazard Review*, the *Journal of Earthquake Engineering*, *Wind and Structures*, and presents work frequently at both national and international conferences. Professor van de Lindt has given a number of keynotes and invited talks around the world including Japan, China, India, Italy, Canada, and New Zealand.

Dr. van de Lindt has served as the Chair of the Technical Administrative Committee on Wood which oversees four national wood committees, and remains a control group member of the wood TAC while serving as Chair of the Executive Committee for the Infrastructure Resilience Division of the American Society of Civil Engineers (ASCE). He continues to contribute to ASCE's mission as Chief Editor of the *Journal of Structural Engineering* where he manages approximately 65 Associate and Section Editors to handle 1200 paper/year. He is a regular organizer and chair of sessions at the ASCE/SEI *Structures Congress* as well as numerous international conferences and workshops. Professor van de Lindt has led multiple very large projects involving management of up to 80 people successfully and producing Ph.D. graduates that have gone on to successful academic careers. Personnel management has been key to the success of those projects. He also served as the designer of millions of dollars of lab equipment and coordinated discussions between the design consultants and facilities while on the faculty at the University of Alabama.

Professor van de Lindt believes and actively seeks to promote the mission of diversity and ensuring that everyone is given an equal chance to succeed in engineering and all areas of study and profession. He has worked with a number of undergraduate, M.S., and Ph.D. student researchers over the last 21 years from diverse backgrounds including women, Latinx, and other underrepresented groups in the STEM disciplines. Dr. van de Lindt has mentored more than 20 students from underrepresented groups such as women and minorities through the Colorado PEAKS Alliance Summer Program at Colorado State University and has hosted six interns from technical universities in France. He is the past chair of the Education and Outreach Committee for the Network for Earthquake Engineering Simulation. He previously chaired CSU's Civil and Environmental Engineering Graduate Instruction Committee, Department Tenure Committee, and Department Promotion Committee. Additionally, he has assisted with applications of numerous students resulting in graduate Fellowships from NSF, AISC, and energy-related organizations and writes approximately ten tenure recommendations for tenure and promotion and two to three promotion letters to full professor of faculty around the U.S. each year. In 2009 he applied for and received an NSF supplement to bring 10 Assistant Professors to Miki, Japan to participate in a CSU-led test program and provided a mechanism for US-Japan networking by planning and hosting a three-day program. Of those funded, more than half were from historically underrepresented groups in engineering. Most recently, he sponsored seven NSF-REU's for two large CSU-led test programs of which four were Latinx and/or women.

### **Personal Information**

Marital Status: Married

Children: 3

Citizenship: U.S.A.

Birthplace: Los Angeles, CA

Pronouns: he/him/his

### **Professional Preparation**

Ph.D., Civil Engineering, Texas A&M University, May 1999

M.S., Civil Engineering, Texas A&M University, December 1995

B.S., Civil Engineering, California State University Sacramento, June 1993

### **Appointments**

Harold H. Short Endowed Chair, Department of Civil and Environmental Engineering, (2018-Present)

George T. Abell Distinguished Professor in Infrastructure, Department of Civil and Environmental Engineering, (2012-2018)

Colorado State University (2012 – Present)

Structural Engineering and Structural Mechanics Coordinator, CSU (2012-2015)

Professor and Garry Neil Drummond Endowed Chair in Civil Engineering, University of Alabama (2010 – 2012)

Structural Engineering and Materials Area Leader, UA (2010 – 2012)

Structural Engineering Laboratory Director, UA (2011-2012)

Professor, Colorado State University (2010)

Associate Professor, Colorado State University (2004 – 2010)

Structural Engineering and Structural Mechanics Coordinator, CSU (2007-2010)

Assistant Professor, Michigan Technological University (2000 – 2004)

Assistant Research Engineer, Texas A&M University (May 1999 – December 1999)

Structural Design Engineer, Dynacon Inc., Bryan, Texas (January 1999 – May 1999)

### **Adjunct Appointments (For Graduate Committee Participation)**

Adjunct Faculty, Department of Civil, Construction, and Environmental Engineering, University of Alabama (2012-Present)

Adjunct Faculty, Department of Civil and Architectural Engineering, University of Wyoming (2009-Present)

Adjunct Graduate Faculty, Department of Wood Science and Engineering, Oregon State University (2008-Present)

## **Professional Interests**

Community Resilience  
Hazard Mitigation  
Performance-Based Design  
Light-Frame Wood/Woodframe  
Structural Reliability  
Structural Resiliency/Sustainability  
Earthquake/Wind Loading  
Engineering Education  
Engineering Administration  
Multi-Hazard Engineering  
Design Code Calibration  
Structural Damage Models

## **Honors and Awards**

*2019 Elected Fellow*, Structural Engineering Institute, American Society of Civil Engineers

*2018 Best Paper Award, ASCE Journal of Architectural Engineering*; with Christine Standohar-Alfano (Lead author), and Eric Holt.

*2018-Present, Harold H. Short Endowed Chair*, Department of Civil and Environmental Engineering, Colorado State University

*2017 Best Journal Paper in Structural Hazards, ASCE Journal of Structural Engineering*; with Navid Attary (Lead author), and Vipin Unnikrishnan, Dan Cox, and Andre Barbosa.

*2017 Ernest E. Howard Award*, American Society of Civil Engineers, “For his influential work to advance the understanding of the performance of wood buildings under extreme hazard loading”.

*2017 Outstanding Faculty Award*, Department of Civil and Environmental Engineering, Colorado State University

*2015 Outstanding Faculty Award*, Department of Civil and Environmental Engineering, Colorado State University

*2015 Raymond C. Reese Research Prize*, American Society of Civil Engineers; Awarded for tsunami loading on woodframe walls experimental work

*2014 Faculty Excellence in Research Award*, Department of Civil and Environmental Engineering, Colorado State University

*2014 Elected Fellow*, American Society of Civil Engineers.

*2013 Outstanding Dissemination of NEES Research Award*, George E. Brown Jr. Network for Earthquake Engineering Simulation (NEES), NEEScomm.

*2012 Raymond C. Reese Research Prize*, American Society of Civil Engineers; Awarded for full-scale six-story woodframe shake table testing work in Miki, Japan.

*2012-2018 George T. Abell Distinguished Professor*, College of Engineering, Colorado State University.

*2011 Guest of Honor*, Opening Ceremonies, *International Conference on Earthquake Analysis and Design of Structures*, Coimbatore, India, December 1-3.

2010-2012 Garry Neil Drummond Endowed Chair, The University of Alabama.

2010 Outstanding Contribution to Research Award, George E. Brown Jr. Network for Earthquake Engineering Simulation (NEES), NEEScomm.

2008 George T. Abell Outstanding Mid-Career Faculty Award, College of Engineering, Colorado State University

2008 Outstanding Faculty Award, Department of Civil and Environmental Engineering, Colorado State University

2007 Foreign Expert in Seismic/Wood Structures, National Institute for Earth Science and Disaster Prevention, Japan.

2006 Faculty Excellence in Research Award, Department of Civil Engineering, Colorado State University

### **Professional Affiliations/Memberships/Other**

#### National

##### ***American Society of Civil Engineers (ASCE)***

Executive Committee, Member/Secretary, Structural Engineering Institute (SEI), 2019-Present

Executive Committee, Chair, Infrastructure Resilience Division (IRD), 2018-Present

Chair, User Group Institutes Committee, Future World Vision Megacity 2070 (2020-Present)

Co-Leader (Co-Chair), SPEED Committee, *Infrastructure Resilience Division* (2016-2018)

Member, NHERI Network Independent Advisory Committee (2017)

Control Member, Subcommittee on Design of Wood Structures (2011-Present)

Associate Member, ASCE7 Tsunami Loads and Effects Subcommittee (2011-2016)

Chair, Technical Administrative Committee on Wood (2006-2009)

Chair, Subcommittee on Reliability-Based Design of Wood Structures (2000-2006)

Member, Subcommittee on Safety of Buildings (2002-2008)

Member, Task Committee on Wind-Driven Rain Effects (2011-2014)

Earthquake Engineering Research Institute (EERI), Member (2001-Present)

Consortium of Universities for Research in Earthquake Engineering (CUREE), Member

Seismological Society of America (SSA), Associate Member, 2000-2002

Network for Earthquake Engineering Simulation (NEES), Member

Standing Committee on Education, Outreach, and Training, Chair, 2007

Chair, NEES User's Forum (2009-2013)

American Society for Engineering Education (ASEE), Member 2000-2003

NHERI Network Independent Advisory Committee (NIAC), Chair, 2017-Present

NHERI RAPID Steering Committee, Chair 2017-Present)

#### State Committees

Colorado Earthquake Hazard Mitigation Council, Member (2005-2010)

#### University Committees

##### Colorado State University

Promotion Committee, Civil and Environmental Engineering (2013-2017), Chair 2017

College of Engineering Dean Search, Member (2012-2013)

Tenure Committee, Civil and Environmental Engineering (2007-2010; 2012-2017), Chair 2017

Civil and Environmental Engineering Graduate Instruction Committee, (Member, 2004-2009, Chair, 2007-2009)

Civil Engineering Departmental Advisory Committee (2005-2010; 2012-Present)  
College of Engineering, Ad Hoc Committee on Internationalization (2005)  
College of Engineering, Dean's Think Tank Committee for Special Initiatives (2008-2010)

University of Alabama

University Research Advisory Committee, VPR Office, University of Alabama (2011-2012)  
Graduate Education, Dept of Civil, Construction, and Env Engineering (2010-2012)  
Executive Committee, Dept of Civil, Construction, and Env Engineering (2010-2012)

### **Editorial boards, Editorships, and Advisory Committees**

*ASCE Journal of Structural Engineering*

Editor-in-Chief, 2020-Present

Section Editor: Structural Safety and Reliability; Structural Optimization; Wind Effects; Wood Structures;  
Fire Effects, 2017-2020

Associate Editor: Wood, 2009-2017

Guest Editor: "NEES Contributions to Earthquake Engineering", 2 successive issues,  
July-Aug, 2013.

Guest Editor: "Seismic Resistant Timber Structures", Special Issue, 2015.

Guest Editor: "Structural Design and Robustness for Community Resilience to Natural Hazards",  
2016-2018.

*ASCE Natural Hazards Review*

Associate Editor, 2017-Present

*Engineering Structures: The Journal of Wind, Earthquake, and Ocean Engineering*

Member, Editorial Board, 2008-Present.

*Sustainable and Resilient Infrastructure*, Springer

Member, Editorial Board, 2016-Present

*The New Zealand Society of Earthquake Engineering, Bulletin*

Member, International Editorial Board, 2013- 2019

### **Synergistic Research Activities**

Professor van de Lindt current serves as the Principal Investigator and Co-director for the \$40M National Institute of Standards and Technology-funded Center of Excellence for Risk-Based Community Resilience Planning headquartered at Colorado State University. The Center was renewed effective February 1, 2020, for \$20M over five years. The NIST COE is a 14-university collaboration that is developing the computational environment needed to enable quantification of community resiliency to natural hazards. This includes supporting databases to facilitate those studies and involves close collaboration across multiple domains of science including engineering, sociology, and economics. Professor van de Lindt has also served as PI on a number of large NSF projects including the three-university NSF-funded \$1.3M project entitled A Risk-Informed Decision Framework to Achieve Resilient and Sustainable Buildings that Meet Community Objectives. That project focused on optimizing a wood-concrete hybrid building such that it maximizes community resiliency while maintaining a minimum specified level of sustainability. The focus was on resiliency to tornadoes and expansive soils in areas such as Oklahoma. He is currently a Co-PI on a project that is culminating in the testing of a full-scale 10-story resilient building on the largest earthquake shake table in the U.S.

Professor van de Lindt served as the project director and PI for a three-year five-university NSF-sponsored project, which had the objective of reducing seismic risk of soft-story woodframe building in North America. Tests at five laboratories around the U.S. (NEES Facilities and other university laboratories) were conducted and the project involved numerous industry and government partners. Professor van de Lindt was also the project

director and PI of the four-year five-university NEESWood Project. The final shake table test program took place in June/July 2009 in Miki, Hyogo Prefecture, Japan. The steel moment frame plus light-frame wood building represented the largest building ever tested on an earthquake shake table—designed at almost 17,000 sq ft (1,400 sq meters) and 850,000 lbs. The building was designed using Performance-Based Seismic Design (PBSD) techniques developed during the first three years of the NEESWood Project. Construction took exactly four months in Miki, Hyogo, Japan where Dr van de Lindt lived with his students while supervising construction. All US and Canadian wood products shipped out of Seattle, WA or Vancouver B.C. and steel shipped out of Los Angeles, CA. Shipping consisted of twenty 44,000 lb containers full of numerous products that were donated or discounted by both industry and government, with technical collaboration from the U.S. Forest Products Lab, Simpson Strong Tie, Maui Homes, and FPInnovations-Forintek Division. The building performed very well thereby validating the new design method. Professor van de Lindt solicited and procured approximately \$1M in additional funds to complete the test program in Japan from both U.S. and foreign governments and industry. Professor van de Lindt was a member of the US FEMA Mitigation Assessment Team (MAT) for the 2008 Mid-West Floods and co-author of the final report, provided assistance to the FEMA MAT following the 2011 Southeastern tornado outbreak, and participated on the NSF-funded rapid team to document damage following the Tuscaloosa tornado of 2011. In 2005, J. van de Lindt led an NSF-sponsored six-person team following hurricane Katrina to investigate the damage to residential structures on the Mississippi gulf coast. This investigation resulted in the forensic assessment of numerous buildings and neighborhoods. He has also participated on earthquake post-disaster inspection teams including the ASCE-sponsored damage investigation following the 2010 Chilean earthquake and damage data collection following the 2011 Christchurch, New Zealand earthquake.

Professor van de Lindt constantly seeks to move ideas forward and gain valuable peer feedback through the development of conference sessions and meetings. For example, he has organized and chaired American Society of Civil Engineers Structure's Congress sessions in 2002-2004, 2006, 2008, 2012-2014. He developed a special session at the 2006 World Conference on Timber Engineering entitled "Performance-Based Design of Wood Structures: Perspectives from Around the Globe", which highlighted research in both presentation and panel discussion format from five countries actively engaged in this research. He served on the board for the 2008 *Research Needs in the New Millennium* Workshop held in Vancouver, B.C. He also served as the track facilitator and organizer for the Seismic Design of Wood Buildings track at the 2008 *World Conference on Earthquake Engineering* in Beijing and a wood design session with papers from five countries at the US-Canada Joint Conference on Earthquake Engineering in 2010. He has organized numerous conference sessions and hosts multiple meetings each year consisting of more than 80 participants as part of the NIST-center efforts.

In 2005, shortly after arriving at Colorado State University, Professor van de Lindt designed and built Colorado's first shake table facility at Colorado State University's Engineering Research Center. Following completion of the shake table, he co-authored a Major Research Instrumentation (MRI) proposal to the National Science Foundation with a wind engineering colleague. This resulted in a \$590,000 equipment grant from NSF, with \$315,000 for construction of a hurricane load structural test frame (20 x 20 x 20ft) capable of controlling seven actuators in force control simultaneously, termed the spatio-temporal structural hurricane test facility. It is currently operational at CSU's Engineering Research Center.

In addition to formal graduate and undergraduate educational activities, Professor van de Lindt has mentored numerous post-doctoral scholars. A number of his former Ph.D. students are now professors including one in Thailand, an Associate Professor at Colorado School of Mines; an Associate Professor at the University of Alabama; a lecturer at Colorado School of Mines; and an Associate Professor at the University of Kansas. He currently has several Ph.D. students with interest in pursuing academic positions upon completion of their studies.

## **Advisees of Professor van de Lindt**

### ***Post Doctoral and Visiting Scientists/Scholars (16)***

Dr. Omar M. Nofal (2021 - Present)

Education: Ph.D. from Colorado State University

Subjects: Resilience of communities to flooding and wind hazards, and recovery modeling

Support: DHS, NSF, NIST

Dr. Tu Nguyen (2021 - Present)

Education: Ph.D. from University of Alabama

Subjects: Nonlinear modeling of wood buildings, collapse analysis of structures, and resilience analysis

Support: NSF, Harold Short funds, NIST

Dr. Milad Roohi (2019 – 2021)

Education: Ph.D. from University of Vermont

Subjects: Multi-hazard Infrastructure and Community Resilience

Support: NIST CRCoE Dr. Milad Roohi

Mr. Alberto Basaglia (2017-2018)

Education: Pursuing a Ph.D. in Italy

Subjects: Seismic Resilience of an Italian Town

Support: Collaborator in Italy

Dr. Patrick (Shane) Crawford (July- Dec 2018)

Education: Ph.D. from the University of Alabama

Subjects: Applications of technology in community resilience

Support: NIST CRCoE

Dr. Karim Farokhnia (2017-2018)

Education: Ph.D. from the University of Colorado – Boulder

Subjects: Interdependency and network flow

Support: NIST CRCoE

Dr. Trung Do (2016-2019)

Education: Ph.D. from Colorado State University

Subjects: Waves and elevated coastal structures

Support: DHS

Dr. Navid Attary (2015-2017)

Education: Ph.D. from Rensselaer Polytechnic Institute

Subjects: Natural hazards analysis and effects on structures; community risk and resilience analysis

Support: NIST CRCoE

Current Position: Senior Research Engineer with FM Global, Boston, MA

Dr. Maria Koliou (2015-2017)

Education: Ph.D. from State University of New York at Buffalo

Subjects: Earthquake and tsunami engineering in the context of community resilience assessment and planning

Support: NIST CRCoE

Current Position: Assistant Professor, Texas A&M University

Dr. Vipin Unnikrishnan (2015-2016)

Education: Ph.D. from Louisiana State University

Subjects: Hurricane and wind effects on woodframe buildings and other structures

Support: NIST CRCoE

Dr. Yi Pan (2013-2014)

Education: Ph.D. from Southeast University (Nanjing, China)

Position: Associate Professor, Southwest Jiaotong University

Subjects: Seismic Hazard Mitigation of At-Risk Buildings

Support: Chinese Govt.

- Dr. Sangki Park (2011-2013)  
Education: Ph.D. from Colorado State University  
Subjects: Understanding and Mitigating Tsunami Risk for Coastal Structures and Communities Retrofit of soft-story woodframe buildings; hurricane risk reduction.  
Support: Various sources.
- Dr. Thang N. Dao (2010-2012)  
Education: Ph.D. from Colorado State University  
Subjects: Performance-Based Wind Engineering for Wood Buildings; Cold Formed Steel Design for Earthquakes  
Support: University of Alabama; The Prescient Companies, LLC  
Current Position: Assistant Professor, University of Alabama
- Dr. Shiling Pei (2007-2010)  
Education: Ph.D. from Colorado State University  
Subjects: PBSD of Light-Frame Wood Structures and Loss Based Design  
Support: USDA, NSF, Provincial Government of British Columbia, CDOT  
Current Position: Assistant Professor, Colorado School of Mines
- Dr. Rebecca Atadero (2006-2008)  
Education: Ph.D. from University of California at San Diego  
Subjects: Shake table study of Indonesian house, composites, sustainable materials, teaching  
Support: APPA, CCHE, Department, College  
Current Position: Associate Professor, Colorado State University
- Dr. Jagadish Vengala, India, BOYSCAST Fellowship (2008)  
Subjects: Numerical Modeling of Light-frame wood buildings; other structures  
Supports: Department of Science and Technology, Govt. of INDIA  
Current Position: Department Head, India

### ***Completed Ph.D. Students (15)***

- Omar. M. Nofal, Ph.D., August 2021  
Dissertation Title: High-resolution Multi-Hazard Approach to Quantify Hurricane-Induced Risk for Coastal and Inland Communities  
Support: DOC-NIST-COE, NSF, NOAA, other  
Current Position: Post-Doctoral Fellow, Colorado State University
- Mohammad Reza Ameri, Ph.D., July 2019  
Dissertation Title: Optimizing Resilience Decision-Support for Natural Gas Networks under Uncertainty  
Support: DOC-NIST-COE  
Current Position: Industry
- Mohammad O. Amini, Ph.D., September 2018  
Dissertation Title: Determination of Seismic Performance Factors for Cross Laminated Timber Shear Wall System Based on FEMA P695 Methodology  
Support: Simpson StrongTie Company  
Current Position: Post-Doctoral Fellow, Colorado State University
- Hassan Masoomi, Ph.D., May 2018  
Dissertation Title: A Resilience-Based Decision framework to Determine Performance Targets for the Built Environment  
Support: NSF – Resilient and Sustainable Buildings  
Current Position: Vice President, Insurance Industry



Trung Do, Ph.D., August 2016

Dissertation Title: Fragility Approach for Performance-Based Design in Fluid-Structure Interaction Problems: Part I: Wind and Wind Turbines; Part II: Waves and Elevated Coastal Structures

Support: NSF – CMMI; DHS

Current Position: Assistant Professor, University of Louisiana Lafayette

Christine Alfano, Ph.D, May 2016

Dissertation Title: Damage Analysis and Mitigation to Structures Subjected to Tornado Loading

Support: Graduate Fellowship and Lecturer

Current Position: Haag Engineering

Pouria Bahmani, Ph.D., May 2015

Dissertation Title: Methodology for Performance-Based Seismic Retrofit of Soft-story Woodframe Buildings

Support: NSF – NEESR

Current Position: Assistant Professor, Milwaukee School of Engineering

Elaina Jennings (Sutley), Ph.D., May 2015

Dissertation Title: A Multi-Objective Community-Level Seismic Retrofit Optimization

Combining Social Vulnerability with an Engineering Framework for Community Resiliency

Support: NSF – Graduate Fellowship; CSU; NSF-NEES

Current Position: Associate Professor, University of Kansas

Negar Nazari, Ph.D., May 2015

Dissertation Title: Methodology to Integrate Aftershock Hazard into Performance-based Engineering

Support: NSF- CMMI

Current Position: NA

Sangki Park, Ph.D. Dec 2011

Dissertation Title: Understanding and Mitigating Tsunami Risk for Coastal Structures and Communities, CSU.

Support: NSF; Drummond Chair Funds

Current Position: Research Engineer, Korea Institute of Construction Technology (KAIST), Seoul, Korea

Thang Nguyen Dao, Ph.D. August 2010.

Dissertation Title: “The Development of Performance-Based Wind Engineering: From Concept to Application”, CSU.

Support: NSF, MPC (UTC)

Current Position: Associate Professor, University of Alabama

Hongyan Liu, Ph.D. August 2010.

Dissertation Title: “Integration of Base Isolation into the Performance-Based Seismic Design of Woodframe Buildings”, CSU.

Support: NSF

Current Position: Lecturer, Colorado School of Mines

Saharat Buddhawanna, Ph.D., August 2008

Dissertation Title: “Reliability-Based Evaluation of Concrete Bridges”

Support: Royal Thai Scholarship

Current Position: Associate Professor, Thammasat University (Thailand)

Shiling Pei, Ph.D., Dec 2007

Dissertation Title: “Loss Analysis and Loss-Based Seismic Design for Woodframe Structures”, CSU

Support: USDA-CSREES, NSF-NEES

Current Position: Associate Professor, Colorado School of Mines

Jonathan S. Goode, Ph.D., May 2007

Dissertation Title: "Correlated Wind Turbulence and Aeroelastic Instability Modeling for 3-D Time Domain Analysis of Slender Structural Systems", CSU,  
Support: CDOT and AISC Fellowship  
Current Position: Haag Engineering, Atlanta, GA.

***Completed M.S. Students (26)***

Yeshwant Kumar Anandan, M.S., Sept, 2019

Thesis: Shake Table Testing of Hybrid Wood Shear Wall System  
Support: Harold H. Short Endowed Chair

Jace Furley, M.S., Aug, 2018

Thesis Title : Shake Table Testing of a Two-Story CLT Platform Building  
Support: NSF and Misc.

Anirudh Kode, M.S., Dec. 2017

Thesis Title: Testing of a Full-Scale Mass Timber Diaphragm  
Support: MPC-FHWA

Todd Clapp, M.S., Dec 2016

Thesis Title: The Connectivity Between Damage to Physical Infrastructure and Social Science : A New Field Study Protocol Concept  
Support : DOC-NIST-COE

Vaishak Gopi (Co-Advised with B. Senior, CM), M.S., May 2016

Thesis Title: Quantifying Sustainability Metrics for Trunkline Bridges in the Mountain Plains Region  
Support : U.S. Department of Transportation - Mountain Plains Consortium

David Turner (Co-Advised with B. Senior, CM), M.S., Dec 2015

Thesis Title: Fragility Assessment of Bridge Superstructures Under Hydrodynamic Forces  
Support : U.S. Department of Transportation - Mountain Plains Consortium

Chris Bright (Co-Advised with R. Atadero), M.S. August 2014

Thesis Title: Alternative FRP reinforcement for bridge decks  
Support : U.S. Department of Transportation - Mountain Plains Consortium

Jose Mazariegosz, M.S., August 2013

Thesis Title: Fragility analysis of masonry shear walls  
Support : Self-supported

M. Omar Amini, M.S. Dec 2010

Thesis Title: "Determination of a Rational Tornado Wind Design Speed for Woodframe Residential Buildings", UA.  
Support: Graduate Teaching Assistant, Drummond Chair Funds

Karthik Rechan Rudraprasad, M.S., May 2010.

Thesis Title: "Damage Comparison of a 1/3 Scale RC Portal Frame Having 50% Spray Dryer Ash Content Following Shake Table Testing", CSU  
Support: Graduate Teaching Assistant, Self-Supported

Sangki Park, M.S., August 2008

Thesis Title: "Formulation of Seismic Fragilities using a Damage Index", CSU

Support: Partial NSF.

Alex Stone, M.S., August 2008

Thesis Title: "Development of Steel Design Details and Selection Criteria for Cost Effective and Innovative Steel Bridges in Colorado", CSU

Support: Colorado Department of Transportation, AISC Fellowship

Rachel Garcia, M.S., May 2008

Thesis Title: "Wave and Surge Loading on Residential Structures", CSU

Support: NSF and BOD Fellowship

Aaron Potts, M.S., August 2007

Thesis Title: "Application of Superelastic Shape Memory Alloys in Supplemental Energy Dissipating Devices for Wood Shear Walls", CSU

Support: Self-supported, internal grants.

Mason Taggart, M.S. Dec 2007

Thesis Title: "Performance-Based Design of Woodframe Structures for Flooding", CSU

Support: Self-supported, internal grants

Cullen Choi, M.S., August 2007

Thesis Title: "Application of Fly Ash as a Light-Frame Wood House Insulator", CSU

Support: American Public Power Association through the Platte River Power Authority

Stephanie Pinon, M.S., August 2006

Technical Paper Option: "Design of Stairwell Core Systems", CSU

Support: Graduate Teaching Assistant, Self-supported.

Dao Nguyen Thang, M.S., Dec 2005

Thesis Title: "A Genetic Approach for Shearwall Placement in Buildings Subjected to Natural and Human-Induced Loads", CSU

Support: U.S.-Vietnam Fellowship.

Kriselda Cuellar, M.S., 2004

Thesis Title: "Method for Design Checks of Steel Overhead Sign Support Structures", MTU

Support: Michigan Department of Transportation, AISC Fellowship

Sridhar Kethu, M.S., 2004

Thesis Title: "Development of Steel Beam End Deterioration Guidelines for Bridge Inspection and Analysis", MTU

Support: Michigan Department of Transportation

Yingmin Zhou, M.S., 2003

Thesis Title: "Towards Earthquake Damage Prediction Using a Type I Slepian Process Model", MTU

Support: U.S. Geological Survey

Ginhuat Goh, M.S., 2003

Thesis Title: "Earthquake Duration Effects on Very Low-Cycle Structural Damage Estimates", MTU

Support: Federal Emergency Management Agency through the Michigan State Police

Matthew Lewis, M.S., 2003

Thesis Title: "Optimization of Cost and Performance of Steel Overhead Sign Support Structures", MTU

Support: Michigan Department of Transportation

Henrique A. de Melo e Silva, M.S., 2003

Thesis Title: "Development of a Mechanistic Wood Shear Wall Damage Model", MTU

Support: Progress Industries LLC, FEMA.

Jason Huart, M.S., 2002

Thesis Title: “Strength-Based Seismic Reliability of Wood Shearwalls”, MTU  
Support: US Peace Corps Fellowship through MTU.

Matthew A. Walz, M.S., 2001

Thesis Title: “Development and Application of a Nonlinear Wood Shear Wall Model”, MTU  
Support: MTU Civil Engineering Fellowship.

### ***Current Ph.D. Students (5)***

Jace Furley

Dissertation subject: Resilience-Based Seismic Design Methodology for Mass Timber Buildings  
Support: NSF; USDA-USFS  
Exp Grad: Spring 2022

Wanting (Lisa) Wang

Dissertation subject: Recovery of communities to tornado hazards  
Support : DOC-NIST-COE ; NSF  
Exp Grad : Summer 2022

Blythe Johnston

Dissertation subject: Merging social science models with engineering models for community resilience  
Support : NSF Graduate Fellowship  
Exp Grad : Spring 2024

Jiate (Jet) Li

Dissertation subject: TBD  
Support: Scott Fellowship (first year), DOC- NIST-COE, NSF  
Exp Grad: TBD

Mojtaba Harati

Dissertation subject: Tsunami loading modeling and effects on the built environment  
Support: DOC- NIST-COE, NSF  
Exp Grad: TBD

### ***Current M.S. Students***

Several plan C advisees pursuing course only option

### **Undergraduate Researchers Advised**

Approx. 35 between 2000-2020 including NSF REU’s, 10 from out of the country; France; India; Puerto Rico.

#### Some past examples of students (NSF REU’s and UG Research Assistants)

Doug Allen, summer 2010

Omar Amini, summer 2010

Zachary Taylor, summer 2010

Kate Pfretchnzer, summer 2010

Sandra Gutierrez, summer 2013

Faith Silva, summer 2013

Gabriel Banuelos, summer 2013

Rocky Chen, summer 2013

Connie Tsui, summer 2013

Philip Thompson, summer 2013  
Karly Rager, summer 2013  
Kyle Nickless, summer 2014  
Jeffrey Doersch, summer 2014  
Andrew Hugill, summer 2014

### **Courses taught at Colorado State University**

#### *Spring 2013, Spring 2015, Spring 2017, Spring 2021 – CE 568 Design of Wood and Masonry Structures*

This graduate class is a first class in the design of masonry and wood structures and is divided approximately evenly between the two subjects. In addition, to design using these two construction materials, wind and seismic loading from ASCE 7 is taught to the extent needed for basic design by students.

#### *Fall 2006, Fall 2007, Fall 2008 – CE 566 Intermediate Structural Analysis*

This graduate course is the second in the 3-course series of structural analysis. The focus is on matrix methods, buckling, arches, cables, and a group project. The group project focuses on the effect of assumptions made in hand structural analysis when compared to solutions offered by commercial finite element software, including the potential effect on design.

#### *Fall 2004, Fall 2005, Spring 2006, Fall 2012, Fall 2013 - CE 367 Structural Analysis*

Basic structural analysis techniques including conjugate beam, virtual work, influence line analysis, direct stiffness method for 2 and 4 DOF beam elements. An introduction to 6-DOF elements for frames is also included.

#### *Spring 2005, Spring 2007, Spring 2009, Spring 2014, Spring 2016, Spring 2018 – CE 767 Earthquake Engineering*

The course follows graduate level structural dynamics and is mostly made up of Ph.D. students interested in earthquake engineering and included elastic rebound theory, response spectrum analysis, inelastic oscillators, energy dissipation, constant-ductility response spectra, incremental dynamic analysis, equivalent lateral force procedure, response of linear and nonlinear buildings, power spectral density estimation of ground motions, response spectrum compatible ground motion generation, intro to earthquake building codes, and performance-based seismic design concepts and procedures. The course culminates with an earthquake shake table competition between two groups made up of students in the class.

#### *Spring 2006, Spring 2008, Spring 2010 – CE 580 Theory and Applications of Structural Reliability*

The objective of this course is to present the theory of structural reliability as it relates to analysis, design, construction, and maintenance of structural and mechanical systems; application to existing and emerging code calibration procedures; and introduce advanced topics. Specific topics include basic rules of probability, expectation and moment generating functions, failure probability, statistics of the extremes, first order second moment methods' linear and non-linear performance functions, LRFD code calibration with applications to bridges and woodframe structures, applications of reliability methods to structural dynamics problems, and performance-based design for seismic and wind loads.

### **Courses taught at the University of Alabama**

#### *Fall 2011 – CE 691 Theory of Structural Reliability*

Please see CE 580 taught at Colorado State University below. The course was similar with a few modifications.

#### *Spring 2011; Spring 2012 – CE 691 Earthquake Engineering*

Graduate level course that introduces basic methods of structural dynamics for SDOF and MDOF systems and applies them to solve typical structural engineering problems. The course then goes into earthquake engineering including elastic rebound theory, response spectrum analysis, inelastic oscillators, energy dissipation, constant-ductility response spectra, incremental dynamic analysis, equivalent lateral force procedure, response of linear and nonlinear buildings, power spectral density estimation of ground motions, response spectrum compatible

ground motion generation, intro to earthquake building codes, and performance-based seismic design concepts and procedures.

### **Courses Taught at Michigan Technological University**

#### *Structural Engineering I (Spring 00, Fall 01, Spring 01, Fall 02, Spring 02, Fall 03)*

Basic structural analysis techniques including conjugate beam, virtual work, influence line analysis, direct stiffness method for 2 DOF beam elements. In addition, this course includes five weeks of basic F.E. level dynamics. Projectile motion, rectilinear and curvilinear particle motion, Newton's 2<sup>nd</sup> Law, impulse-momentum, collision, and an introduction to linear oscillators.

#### *Structural Dynamics I (Fall 02, Fall 03)*

Graduate level course that introduces basic methods of structural dynamics for SDOF and MDOF systems and applies them to solve typical structural engineering problems. Stodola's method, Rayleigh's quotient, FFT, modal combination, and numerical integration of the equation of motion. This also includes a brief introduction to probabilistic structural dynamics. Throughout the course examples that relate to different types of dynamics problems including earthquake engineering are presented.

#### *Structural Dynamics II : Earthquake Engineering (Spring 02)*

Graduate level course that covers response spectra, design spectra, energy dissipation, seismic hazard analysis, equivalent lateral force procedure, soft story buildings, power spectral density, generation of artificial ground motion using an IFFT and envelope function, and an introduction to performance-based seismic engineering.

#### *Structural Engineering II (Spring 04)*

This is a basic structural design course which is split evenly between steel design and reinforced concrete design. LRFD is applied to steel tension, compression, flexural members, and basic connections and ultimate strength design is applied to concrete flexural members.

### **Journal Publications**

(Underlining indicates graduate/post-doctoral advisee)

1. Nofal, O.M., J.W. van de Lindt, T.Q. Do, G. Yan, S. Hamideh, D. T Cox, and J.C. Dietrich. (2021). "Methodology for Regional Multi-Hazard Hurricane Damage and Risk Assessment.", *Journal of Structural Engineering*, In Press.
2. Furley, J., J.W. van de Lindt, S. Pei, S. Wichman, H. Hasani, J.W. Berman, K. Ryan, J.D. Dolan, R.B. Zimmerman, and E. McDonnell. (2021). "Time-to-Functionality Fragilities for Performance Assessment of Buildings.", *Journal of Structural Engineering*, In Press.
3. Wang, W(L)., J.W. van de Lindt, N. Rosenheim, H. Cutler, B. Hartman, J.S. Lee, and D. Calderon. (2021). "Effect of Residential Building Wind-Retrofit Strategies on Social and Economic Community Resilience Metrics.", *Journal of Infrastructure Systems*, In Press.
4. Anandan, Y., J.W. van de Lindt, M.O. Amini, T.N. Dao, and S. Aaeleti. (2021). "Experimental Dynamic Testing of Full-Scale Light-Frame-CLT Wood Shear Wall System.", *ASCE Journal of Architectural Engineering*, Special Issue on Mass Timber, Vol 27 (1), doi.org/10.1061/(ASCE)AE.1943-5568.0000443.
5. Wang, W(L). and J.W. van de Lindt. (2021). "Quantitative modeling of residential building disaster recovery and effects of pre- and post-event policies.", *International Journal of Disaster Risk Reduction*, 59 (2021) 102259.

6. Peek L, J. Tobin, J.W. van de Lindt, and A. Andrews. (2021). "Getting Interdisciplinary Teams into the Field: Institutional Review Board Preapproval and Multi-Institution Authorization Agreements for Rapid Response Disaster Research.", *Risk Analysis Journal*, 10.1111/risa.13740. PMID: 33960513.
7. Amini, M.O., J. W. van de Lindt, D. Rammer, and S. Pei. (2021). "Rocking Behavior of High Aspect Ratio Cross Laminated Timber Shear Walls: Experimental and Numerical Investigation.", *Journal of Architectural Engineering*, 27 (3), doi.org/10.1061/(ASCE)AE.1943-5568.0000473.
8. Nofal, O. and J.W. van de Lindt. (2021). "High-resolution flood risk approach to quantify the impact of policy change on flood losses at community-level.", *International Journal of Disaster Risk Reduction*, 62 (2021) 102429.
9. Mugabo, I., A.R. Barbosa, A. Sinha, C. Higgins, M. Riggio, S. Pei, J.W. van de Lindt, and J.W. Berman. (2021). "System Identification of a UCSD-NHERI Shake-Table Test of a Two-Story Structure with Cross-Laminated Timber Rocking Walls.", *ASCE Journal of Structural Engineering*, 147 (4).
10. Kode, A., M.O. Amini, J.W. van de Lindt, and P. Line. (2021). "Lateral Load Testing of a Full-Scale Cross-Laminated Timber Diaphragm.", *ASCE Practice Periodical on Structural Design and Construction*, Vol 26 (2), doi.org/10.1061/(ASCE)SC.19435576.0000566.
11. Roohi, M., J.W. van de Lindt, N. Rosenheim, Y. Hu, and H. Cutler. (2020). "Implication of building inventory accuracy on physical and socio-economic resilience metrics for informed decision-making in natural hazards.", *Structure and Infrastructure Engineering*, doi.org/10.1080/15732479.2020.1845753.
12. Mugabo, I., A. R. Barbosa, A. Sinha, C. Higgins, M. Riggio, S. Pei, J. W. van de Lindt, and J. W. Berman. (2021). "System Identification of a UCSD-NHERI Shake-Table Test of a Two-Story Structure with Cross-Laminated Timber Rocking Walls.", *Journal of Structural Engineering*, Vol 147 (4), doi.org/10.1061/(ASCE)ST.1943541X.0002938.
13. Pilkington, S., A. Curtis, H. Mahmoud, J.W. van de Lindt, S. Smith, J. Ajayakumar. (2020). "Preliminary Documented Recovery Patterns and Observations from Video Catalogued Data of the 2011 Joplin, Missouri, Tornado.", *Natural Hazards Review*, Vol 22(1), doi.org/10.1061/(ASCE)NH.1527-6996.0000425.
14. Nofal, O.M. and J.W. van de Lindt. (2020). "High-Resolution Approach to Quantify the Impact of Building-Level Flood Mitigation and Adaptation Measures on Flood Losses at the Community-Level.", *International Journal of Disaster Risk Reduction*, Volume 51, December 2020, 101903.
15. Barbosa, A. R., L.G. Rodrigues, A. Sinha, C. Higgins, R. Zimmerman, S. Breneman, S. Pei, J.W. van de Lindt, J. Berman, and E. McDonnell. (2021). "Shake table Experimental testing and Performance of Cross-Laminated Timber Diaphragms.", *ASCE Journal of Structural Engineering*, Vol 147 (4), doi.org/10.1061/(ASCE)ST.1943-541X.0002914.
16. Aghababaei, M., C. Okamoto, M. Koliou, T. Nagae, C. Pantelides, K. L. Ryan, A. R. Barbosa, S. Pei, J. W. van de Lindt, and S. Dashti. (2020). "Full-Scale Table Test Damage Data Collection Using Terrestrial Laser-Scanning Techniques.", *ASCE Journal of Structural Engineering*, Vol 147 (3), doi.org/10.1061/(ASCE)ST.1943-541X.0002905.
17. Nofal, O.M. and J.W. van de Lindt. (2020). "Minimal Building Flood Fragility and Loss Function Portfolio for Resilience Analysis at the Community-Level.", *Water* 2020, 12 (8), 2277, doi.org/10.3390/w12082277.
18. Perry, B., Y. Guo, R. Atadero, and J.W. van de Lindt. (2020). "Streamlined Bridge Inspection System Utilizing Unmanned Aerial Vehicles (UAVs) and Machine Learning Measurement.", *Measurement*, 164 (2020), 108048.

19. Attary, N., H. Cutler, M. Shields, and J.W. van de Lindt. (2020). "The Economic Effects of Financial Relief Delays Following a Natural Disaster.", *Economic Systems Research*, Vol 32 (3), doi.org/10.1080/09535314.2020.1713729.
20. van de Lindt, J.W., M. O. Amini, D. Rammer, S. Pei, P. Line, and M. Popovski. (2020). "Seismic Performance Factors for Cross Laminated Timber Shear Wall Systems in the United States.", *ASCE Journal of Structural Engineering*, Vol 146 (9), doi.org/10.1061/(ASCE)ST.1943541X.0002718.
21. Nofal, O., J.W. van de Lindt, and T.Q. Do. (2020). "Multi-variate and Single-Variable Flood Fragility and Loss Approaches for Wood Frame Buildings.", *Reliability Engineering and System Safety*, DOI: 10.1016/j.ress.2020.106971.
22. Aghababaei, M., M. Koliou, S. Pilkington, H. Mahmoud, J.W. van de Lindt, A. Curtis, S. Smith, J. Ajayakumar, and M. Watson. (2020). "Validation of Time-Dependent Repair Recovery of the Building Stock following the 2011 Joplin Tornado.", *ASCE Natural Hazards Review*, Vol 21 (4), doi.org/10.1061/(ASCE)NH.1527-6996.0000408.
23. Crawford, P. S., A.M. Hainen, A. J. Graettinger, J.W. van de Lindt, and L. Powell. (2020). "Discrete Outcome Analysis of Tornado Damage Using Deep Learning Data Acquisition.", *ASCE Natural Hazards Review*, Vol 21 (4), doi.org/10.1061/(ASCE)NH.1527-6996.0000396.
24. Koliou, M. and J.W. van de Lindt. (2020). "Development of Building Restoration Functions for use in Community Recovery Planning to Tornadoes.", *ASCE Natural Hazards Review*, Vol 21 (2) doi.org/10.1061/(ASCE)NH.1527-6996.0000361.
25. Bahmani, P., J.W. van de Lindt, S.E. Pryor, and G. Mochizuki. (2020). "Performance-Based Seismic retrofit Procedure with Shake table Validation.", *Engineering Structures*, 205 (2020) 110012.
26. Nofal, O. and J.W. van de Lindt. (2020). "Understanding Flood Risk in the Context of Community Resilience: Current Research Needs and Future Research Trends.", *Sustainable and Resilient Infrastructure*, doi.org/10.1080/23789689.2020.1722546.
27. van de Lindt, J.W., W. G. Peacock, J. Mitrani-Reiser, N. Rosenheim, D. Deniz, M. Dillard, T. Tomiczek, M. Koliou, A. Graettinger, P. S. Crawford, K. Harrison, A. Barbosa, J. Tobin, J. Helgeson, L. Peek, M. Memari, E. J. Sutley, S. Hamideh, D. Gu, S. Cauffman, and J. Fung. (2020). "Community Resilience-Focused Technical Investigation of the 2016 Lumberton, North Carolina Flood: An Interdisciplinary Approach.", *ASCE Natural Hazards Review*, Vol 21 (3). doi.org/10.1061/(ASCE)NH.1527-6996.0000387.
28. Granello, G., A. Palermo, S. Pampanin, S. Pei, and J.W. van de Lindt. (2020). "Post-Tensioned Timber Buildings: State of the Art.", *Journal of Structural Engineering*, 146 (6).
29. Nofal, O. and J.W. van de Lindt. (2020). "Probabilistic Flood Loss Assessment at the Community Scale: A Case Study of 2016 Flooding in Lumberton, NC.", *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, Vol 6 (2), doi.org/10.1061/AJRUA6.0001060.
30. Pilkington, S.F., H.N. Mahmoud, J. W. van de Lindt, M. Koliou, and S. Smith. (2020). "Hindcasting Loss and Evaluating Track Implications of Track Location for the 2011 Joplin, MO Tornado.", *Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*, 6 (2), doi.org/10.1115/1.4046326.
31. Blomgren, H-E, S. Pei, J. Zhibin, J. Powers, J.D. Dolan, J.W. van de Lindt, A. Barbosa and D. Huang. (2019). "Full-scale Shake Table Testing of Cross-Laminated Timber Rocking Shear Walls with Replaceable Components.", *Journal of Structural Engineering*, 145 (10), https://doi.org/10.1061/(ASCE)ST.1943-541X.0002388.



32. Masoomi, H. and J.W. van de Lindt. (2019). "Community-Resilience-Based Design of the Built Environment.", *ASCE-ASME J. Risk Uncertainty Eng. Syst., Part A: Civ. Eng.*, 2019, 5(1): 04018044.
33. Deng, P., S. Pei, J.W. van de Lindt, M. O. Amini, and H. Liu. (2019). "Lateral behavior of panelized CLT wall: A pushover analysis based on minimal resistance assumption.", *Engineering Structures*, Vol 191, pp 469-478, doi.org/10.1016/j.engstruct.2019.04.080.
34. Pei, S., J.W. van de Lindt, A. Barbosa, J. Berman, E. McDonnell, J.D. Dolan, H-E Blomgren, R. Zimmerman, D. Huang, and S. Wichman. (2019). "Experimental seismic response of a resilient two-story mass timber building with post-tensioned rocking walls.", *ASCE Journal of Structural Engineering*, 145 (11) [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0002382](https://doi.org/10.1061/(ASCE)ST.1943-541X.0002382).
35. Attary N., J.W. van de Lindt, A.R. Barbosa, D.T. Cox and V.U. Unnikrishnan. (2019). "Performance-Based Tsunami Engineering for Risk Assessment of Structures Subjected to Multi-Hazards: Tsunami following Earthquake.", *Journal of Earthquake Engineering*, doi.org/10.1080/13632469.2019.1616335.
36. Ameri, M. Reza and J.W. van de Lindt. (2019). "Seismic Performance and Recovery Modeling of Natural Gas Networks at the Community Level using Building Demand.", *ASCE Journal of Performance of Constructed Facilities*, 33 (4), DOI: 10.1061/(ASCE)CF.1943-5509.0001315.
37. Do, T., J.W. van de Lindt, and D.T. Cox. (2019). "Hurricane surge-wave building fragility methodology for use with the HAZUS-MH.", *Journal of Structural Engineering*, 146(1), DOI: 10.1061/(ASCE)ST.1943-541X.002472.
38. Farokhnia, K., J.W. van de Lindt, and M. Koliou. (2019). "Selection of Residential Building Design Requirements to Achieve Community Functionality Goals under Tornado Loading.", *Practice Periodical on Structural Design and Construction*, 25(1), [doi.org/10.1061/\(ASCE\)SC.1943-5576.0000464](https://doi.org/10.1061/(ASCE)SC.1943-5576.0000464).
39. Guo, Y. and J.W. van de Lindt. (2019). "Simulation of Hurricane Wind Fields for community Resilience Applications: A Data-Driven Approach Using Integrated Asymmetric Holland Models for Inner and Outer Core Regions.", *ASCE Journal of Structural Engineering*, 145(9), DOI: 10.1061/(ASCE)ST.1943-541X.002366.
40. Kameshwar, S., H. Park, S. Alam, K. Farokhnia, A. Barbosa, D. Cox, and J.W. van de Lindt. (2019). "Probabilistic decision-support framework for community resilience: Incorporating multi-hazards, infrastructure interdependencies, and resilience goals in a Bayesian network.", *Reliability Engineering and System Safety*, 191, [doi.org/10.1016/j.ress.2019.106568](https://doi.org/10.1016/j.ress.2019.106568).
41. Park, H., M.S. Alam, D.T. Cox, A.R. Barbosa, and J.W. van de Lindt. (2019). "Probabilistic seismic and tsunami damage analysis (PSTDA) for the Cascadia Subduction Zone applied to Seaside, Oregon.", *International Journal of Disaster Risk Reduction*, 135, DOI: 10.1016/j.ijdrr.2019.101076.
42. Aaleti, S., J.W. van de Lindt, T. Dao, T. Nguyen, and K. Fridley. (2018). "Seismic Assessment of a Three-Story Wood Building with an Integrated CLT-Lightframe System using RTHS.", *Engineering Structures*, 167, DOI: 10.1016/j.engstruct.2018.01.025.
43. Bolvardi, V., S. Pei, J.W. van de Lindt, and J.D. Dolan. (2018). "Design of Tall Cross Laminated Timber Platform Buildings with Inter-Story Isolation.", *Engineering Structures*, <https://doi.org/10.1016/j.engstruct.2017.09.054>.
44. Tannert, T., D. Moroder, J.W. van de Lindt, M. Fragiacomio, M. Follesa, and H. Isoda. (2019). "Seismic Design of Cross-Laminated Timber Buildings.", *Wood and Fiber Science*, 50 (Special Issue).

45. Masoomi, H., J.W. van de Lindt, M.R. Ameri, T.Q. Do, and B.M. Webb. (2018). "Combined Wind-Wave-Surge Hurricane-Induced Damage Prediction for Buildings.", *ASCE Journal of Structural Engineering*, 145 (1), 04018227, DOI: 10.1061/(ASCE)ST.1943-541X.0002241.
46. Attary, N., J.W. van de Lindt, H. Mahmoud, and S. Smith. (2018). "Hindcasting Community Level Damage for the Joplin MO 2011 EF5 Tornado: Buildings-Electric Power Network.", *ASCE Natural Hazards Review*, 2019, 20 (1), 04018027, DOI: 10.1061/(ASCE)NH.1527-6996.0000317.
47. Amini, M.O., J.W. van de Lindt, D. Rammer, S. Pei, P. Line, and M. Popovski. (2018). "Systematic Experimental Test Results in Support of Seismic Performance Factors for Cross Laminated Timber Shear Wall System.", *Engineering Structures*, 172, 392-404, DOI:10.1016/j.engstruct.2018.06.021.
48. Park, H., T. Do, T. Tomiczek, D.T. Cox, and J.W. van de Lindt. (2018). "Numerical Modeling of Non-Breaking, Impulsive Breaking, and Broken Wave Interaction with Elevated Coastal Structures: Laboratory Validation and Inter-Model Comparison.", *Ocean Engineering*, 158, 78-98. DOI:10.1016/j.oceaneng.2018.03.088.
49. Attary, N., J.W. van de Lindt, H. Mahmoud, S. Smith, C.M. Navarro, Y.W. Kim, and J.S. Lee. (2018). "Hindcasting Community Level Building Damage for the 2011 Joplin EF5 Tornado.", *Natural Hazards*, doi.org/10.1007/s11069-018-3353-5.
50. Masoomi, H. and J.W. van de Lindt. (2018). "Fatality and Injury Prediction Model for Tornadoes.", *ASCE Natural Hazards Review*, 19 (3), 04018009, DOI: 10.1061/(ASCE)NH.1527-6996.0000295.
51. Koliou, M., J.W. van de Lindt, and R.O. Hamburger. (2018). "Nonlinear Modeling of Wood-Frame Shear Wall Systems for Performance-Based Earthquake Engineering: Recommendations for the ASCE 41 Standard.", *ASCE Journal of Structural Engineering*, 144 (8), 04018905, DOI: 10.1061/(ASCE)ST.1943-541X.0002083.
52. Koliou, M., J.W. van de Lindt, T.P. McAllister, B.R. Ellingwood, M. Dillard, and H. Cutler. (2018). "State of the Research in Community Resilience: Progress and Challenges.", *Sustainable and Resilient Infrastructure*, DOI:10.1080/23789689.2017.1418547.
53. Masoomi, H., M.R. Ameri, and J.W. van de Lindt. (2018). "Wind Performance Enhancement Strategies for Woodframe Buildings.", *ASCE Journal of Performance of Constructed Facilities*, 32 (3), 10.1061/(ASCE)CF.1943-5509.0001172.
54. Memari, M., N. Attary, H. Masoomi, H. Mahmoud, J.W. van de Lindt, S.F. Pilkington, and M. Ameri. (2018). "Minimal Building Fragility Portfolio for Damage Assessment of Communities Subjected to Tornadoes.", *ASCE Journal of Structural Engineering*, 144(7): DOI:10.1061/(ASCE)ST.1943-541X.0002047.
55. Masoomi, H., J.W. van de Lindt, and L. Peek. (2018). "Quantifying Socioeconomic Impact of a Tornado by Estimating Population Outmigration as a Resilience Metric at the Community Level.", *ASCE Journal of Structural Engineering*, 144(5): 04018034, DOI: 10.1061/(ASCE)ST.1943-541X.0002019.
56. van de Lindt, J.W., J. Furley, M.O. Amini, S. Pei, G. Tamagnone, A.R. Barbosa, D. Rammer, P. Line, M. Fragiocomo, and M. Popovski. (2018). "Experimental Seismic Behavior of a two-story CLT platform building.", *Engineering Structures*, 183 (2019), 408 – 422, DOI: 10.1016/j.engstruct.2018.12.079.
57. Amini, M.O., J.W. van de Lindt, D. Rammer, S. Pei, P. Line, and M. Popovski. (2018). "Systematic experimental investigation to support the development of seismic performance factors for cross laminated timber shear wall systems.", *Engineering Structures*, 172 (2018) 392- 404, doi.org/10.1016/j.engstruct.2018.06.021.

58. Tannert, T., D. Moroder, J.W. van de Lindt, M. Fragiacomio, M. Follesa, and H. Isoda. (2018). "Seismic Design of Cross-Laminated Timber Buildings.", *Wood and Fiber Science*, 50 (Special Issue), 2018, pp. 3-26.
59. Alam, M.S., A.R. Barbosa, M.H. Scott, D.T. Cox, and J.W. van de Lindt. (2017). "Development of Physics-based Tsunami Fragility Functions considering Structural Member Failures.", *ASCE Journal of Structural Engineering*, DOI: 10.1061/(ASCE)ST.1943-541X.0001953.
60. Masoomi, H., and J. van de Lindt. (2017). "Restoration and Functionally Assessment of a Community Subjected to Tornado Hazard.", *Structure and Infrastructure*, DOI: 10.1080/15732479.2017.1354030.
61. Sutley, E.J., J.W. van de Lindt, and L. Peek. (2017). "Multihazard Analysis: Integrated Engineering and Social Science Approach.", *Journal of Structural Engineering*, DOI: 10.1061(ASCE)ST.1943-541X.0001846.
62. Tomiczek, T., H. Park, D.T. Cox, J.W. van de Lindt, and P. Lomonaco. (2017). "Experimental Modeling of Horizontal and Vertical Wave Forces on an Elevated Coastal Structure.", *Coastal Engineering*, 128, 58-74.
63. Standohar-Alfano, C.D., J. van de Lindt, and E. Holt. (2017). "Comparative Residential Property Loss Estimation for the April 25-28, 2011 Tornado Outbreak.", *ASCE Journal of Architectural Engineering*, DOI: 10.1061/(ASCE)AE.1943-5568.0000283.
64. Masoomi, H., and J.W. van de Lindt. (2017). "Tornado Community-Level Spatial Damage Prediction Including Pressure Deficit Modeling.", *Journal of Sustainable and Resilient Infrastructure*, DOI: 10.1080/23789689.2017.1345254.
65. Akbas, T., R. Sause, J. M. Ricles, R. Ganey, J. Berman, S. Loftus, J.D. Dolan, S. Pei, J.W. van de Lindt, and H-E Blomgren. (2017). "Analytical and Experimental Lateral Load Response of Self-Centering CLT Walls.", *Journal of Structural Engineering*, 143 (6): 04017019.
66. Dao, T. N., J.W. van de Lindt, and T.X. Ho. (2017). "New Nonlinear Lateral-Vertical Coupled Shear Element Model for Use in Finite Element Structural Analysis Applications.", *Engineering Structures*, 140 (2017) p 98-109.
67. Deng, P., S. Pei, J.W. van de Lindt, and C. Zhang. (2017). "Experimental Investigation of Seismic Uncertainty Propagation through Shake Table Tests.", *ASCE Journal of Structural Engineering*, 06017009-1.
68. Bahmani, P., J.W. van de Lindt, A. Iqbal, and D. Rammer. (2017). "Mass Timber Rocking Panel Retrofit of a Four-Story Soft-Story Building with Full-Scale Shake Table Validation.", *Buildings* 2017, 7, 48; doi:10.3390/buildings7020048.
69. Ganey, R., J. Berman, T. Akbas, S. Loftus, J.D. Dolan, R. Sause, J. Ricles, S. Pei, J. van de Lindt, and H-E Blomgren. (2017). "Experimental Investigation of Self-Centering Cross Laminated Timber Walls.", *Journal of Structural Engineering*, DOI: 10.1061/(ASCE)ST.1943-541X.0001877.
70. Deng, P., S. Pei, J.W. van de Lindt, and C. Zhang. (2017). "Uncertainty Quantification for Seismic Responses of Bilinear SDOF Systems: A Semi-Closed Form Estimation.", *Soil Dynamics and Earthquake Engineering*, 93, 18-28.
71. Koliou, M., H. Masoomi, and J.W. van de Lindt. (2017). "Performance Assessment of Tilt-Up Big-Box Buildings Subjected to Extreme Hazards: Tornadoes and Earthquakes.", *ASCE Journal of Performance of Constructed Facilities*, DOI: 10.1061/(ASCE)CF.1943-5509.0001059.

72. Dao, T.N., J.W. van de Lindt, and T.X. Ho. (2017). "New Nonlinear Lateral-Vertical Coupled Shear Element Model for Use in Finite Element Structural Analysis Applications.", *Engineering Structures*, 140, 98-109, doi.org/10.1016/j.engstruct.2017.02.064.
73. Standohar-Alfano, C.D., J.W. van de Lindt, and B.R. Ellingwood. (2017). "Vertical Load Path Failure Risk Analysis of Residential Wood-Frame Construction in Tornadoes.", *ASCE Journal of Structural Engineering*, 143 (7), 04017045.
74. Deng, P., S. Pei, J.W. van de Lindt, H. Liu, and C. Zhang. (2017). "An Approach to Quantify Ground Motion Uncertainty for Elastoplastic System Acceleration in Incremental Dynamic Analysis.", *Advances in Structural Engineering*, 1369433217693630.
75. Sutley, E., J.W. van de Lindt, and L. Peek. (2016). "Community Level Framework for Seismic Resiliency I: Coupling Socioeconomic Characteristics and Engineering Building Systems.", *ASCE Natural Hazards Review*, 10.1061/(ASCE)NH.1527-6996.0000239.
76. Sutley, E., J.W. van de Lindt, and L. Peek. (2016). "Community Level Framework for Seismic Resiliency II: Multi-Objective Optimization and Illustrative Examples.", *ASCE Natural Hazards Review*, 10.1061/(ASCE)NH.1527-6996.0000230.
77. Unnikrishnan, V.U. and J.W. van de Lindt. (2016). "Probabilistic Framework for Performance Assessment of Electrical Power Networks to Tornadoes.", *Journal of Sustainable and Resilient Infrastructure*, 1:3-4, 137-152.
78. Ho, T., T. Dao, S. Aaelti, J. van de Lindt, and D. Rammer. (2016). "Hybrid System of Unbonded Post-Tensioned CLT Panels and Light-Frame Wood Shear Walls.", *J. Struct. Eng.*, 10.1061/(ASCE)ST.1943-541X.0001665, 04016171.
79. Ellingwood, B.R., H. Cutler, P. Gardoni, W.G. Peacock, J.W. van de Lindt, and N. Wang. (2016). "The Centerville Virtual Community: A Fully Integrated Decision Model of Interacting Physical and Social Infrastructure Systems.", *Journal of Sustainable and Resilient Infrastructure*, 1:3-4, 95-107.
80. Sutley, E. and J. van de Lindt. (2016). "Evolution of Predicted Seismic Performance for Wood-Frame Buildings.", *ASCE J. of Architectural Eng.*, 10.1061/(ASCE).1943-5568.0000212, B401604.
81. Koliou, M., J. van de Lindt, and A. Filiatrault. (2016). "Evaluation of an alternative seismic design approach for rigid wall flexible wood roof diaphragm buildings through probabilistic loss estimation and disaggregation.", *Engineering Structures*, 127 (11), 31-39.
82. Attary, N., J. van de Lindt, V.U. Unnikrishnan, A.R. Barbosa, and D.T. Cox. (2016). "Methodology for Development of Physics-Based Tsunami Fragilities.", *Journal of Structural Engineering*, 10.1061/(ASCE)ST.1943-541X.0001715. **JSE's 2017 Best Paper in Structural Hazards Award.**
83. Masoomi, H., and J. van de Lindt. (2016). "Tornado fragility and risk assessment of an archetype masonry school building.", *Engineering Structures*, 128 (2016), 26-43.
84. Do, T.Q., J.W. van de Lindt, and D. Cox. (2016). "Performance-Based Design Methodology for Inundated Elevated Coastal Structures Subjected to Wave Load.", *Engineering Structures*, j.engstruct.2016.02.046.
85. Guidotti, R., H. Chmielewski, V.U. Unnikrishnan, P. Gardoni, T. McAllister, and J.W. van de Lindt. (2016). "Modeling the Resilience of Critical Infrastructure: The Role of Network Dependencies.", *Journal of Sustainable and Resilient Infrastructure*, 1:3-4, 153-168.
86. Standohar-Alfano, C.D. and J.W. van de Lindt. (2016). "Risk Analysis for Residential Woodframe Roof Systems to Tornadoes Across the U.S..", *Journal of Structural Engineering*, 142 (1), 04015099.

87. Shao, X., W. Pang, C. Griffith, E. Ziaei, and J.W. van de Lindt. (2016). "Development of a Hybrid Controller for Full-Scale Experimental Investigation of Seismic Retrofits for Soft-Story Woodframe Buildings.", *Earthquake Engineering and Structural Dynamics*, 45(8), 1233-1249.
88. Bright, C., R. Atadero, and J. van de Lindt. (2016). "Concept Development and Evaluation of a New GFRP Reinforcement Geometry for Concrete Beams.", *J. Compos. Constr.*, 10.1061/(ASCE)CC.1943-5614.0000615,04015049.
89. Tian, J., M.D. Symans, W. Pang, E. Ziaei, and J.W. van de Lindt. (2015). "Application of Energy Dissipation Devices for Seismic Protection of Soft-Story Woodframe Buildings in Accordance with FEMA P-807 Retrofit Philosophy.", *ASCE Journal of Structural Engineering*, 10.1061/(ASCE)ST.1943-541X.0001269 , E4015009.
90. Jennings, E.N., J.W. van de Lindt, E. Ziaei, P. Bahmani, S. Park, X. Shao, W. Pang, D. Rammer, G. Mochizuki, and M. Gershfeld. (2015). "Full-Scale Experimental Verification of the Soft-Story-Only Woodframe Building Retrofits using Hybrid Testing.", *Journal of Earthquake Engineering*, 19 (3).
91. Nazari, N., J.W. van de Lindt, and Y. Li. (2015). "Quantifying Changes in Structural Design Needed to Account for Aftershock Hazard.", *ASCE Journal of Structural Engineering*, 141 (11), 04015035.
92. Jennings, E.N., E. Ziaei, W. Pang, J.W. van de Lindt, X. Shao, and P. Bahmani. (2015). "Full-Scale Experimental Investigation of an Over-Retrofitted Soft-Story Woodframe Building.", *ASCE Journal of Performance of Constructed Facilities*, 10.1061/(ASCE)CF.1943-5509.0000736 , 04015004.
93. Pei, S., J.W van de Lindt, M. Popovski, J. W Berman, J.D. Dolan, J. M Ricles, R. Sause, H-E Blomgren and D.R Rammer. (2015). "Cross Laminated Timber for Seismic Regions: Progress and Challenges for Research and Implementation.", *Journal of Structural Engineering*, [10.1061/\(ASCE\)ST.1943-541X.0001192](https://doi.org/10.1061/(ASCE)ST.1943-541X.0001192) , E2514001.
94. Bahmani, P., J.W. van de Lindt, G. Mochizuki, M. Gershfeld, and S.E. Pryor. (2014). "Experimental Seismic Collapse Study of a Full-Scale Four-Story Soft-Story Woodframe Building.", *ASCE Journal of Architectural Engineering*, [10.1061/\(ASCE\)AE.1943-5568.0000166](https://doi.org/10.1061/(ASCE)AE.1943-5568.0000166) , B4014009.
95. Song, R., Y. Li, and J.W. van de Lindt. (2014). "Impact of Earthquake Ground Motion Characteristics on Collapse Risk of Post-Mainshock Buildings Considering Aftershock.", *Engineering Structures*, 81 (12), 349-361, [10.1016/j.engstruct.2014.09.047](https://doi.org/10.1016/j.engstruct.2014.09.047) .
96. Bahmani, P., J.W. van de Lindt, M. Gershfeld, G. Mochizuki, S.E. Pryor, M., D. Rammer. (2013). "Experimental Seismic Behavior of a Full-Scale Four-Story Soft-Story Woodframe Building I: Building Design and Retrofit Methodology.", *ASCE Journal of Structural Engineering*, 10.1061/(ASCE)ST.1943-541X.0001207, E4014003.
97. Nazari, N., J.W. van de Lindt, and Y. Li, (2014). "Effect of Aftershock Intensity on Building Collapse Estimates.", *International Journal of Reliability and Safety*, 10.1504/IJRS.2014.069526.
98. Han, R., Y. Li, and J.W. van de Lindt. (2014). "Assessment of Seismic Performance of Buildings with incorporation of Aftershocks.", *Journal of Performance of Constructed Facilities*, [10.1061/\(ASCE\)CF.1943-5509.0000596](https://doi.org/10.1061/(ASCE)CF.1943-5509.0000596) , 04014088.
99. van de Lindt, J.W., P. Bahmani, G. Mochizuki, S.E. Pryor, M. Gershfeld, J. Tian, D. Rammer, and M.D. Symans. (2013). "Experimental Seismic Behavior of a Full-Scale Four-Story Soft-Story Woodframe Building II: Shake Table Test Results.", *ASCE Journal of Structural Engineering*, 10.1061/(ASCE)ST.1943-541X.0001206, E4014004.

100. Jennings, E.N., J.W. van de Lindt, E. Ziaei, G. Mochizuki, W. Pang, and X. Shao. (2014). "Retrofit of a Soft-Story Woodframe Building using SMA Devices with Full-Scale Hybrid Test Verification.", *Engineering Structures*, 80 (1), 469-485.
101. Li, Y., R. Song, and J.W. van de Lindt. (2014). "Collapse Fragility of Steel Structures Subjected to Earthquake Mainshock-Aftershock Sequences.", *Journal of Structural Engineering*, 140(12), 04014095.
102. Do, T., J.W. van de Lindt, and H. Mahmoud. (2014). "Fatigue Life Estimates and Performance-Based Design of Wind Turbine Towers Bases.", *ASCE Journal of Structural Engineering*, [10.1061/\(ASCE\)ST.1943-541X.0001150](https://doi.org/10.1061/(ASCE)ST.1943-541X.0001150) , 04014183.
103. Park, S. and J.W. van de Lindt. (2014). "Genetic Optimization for Seismic Retrofit of Soft-Story Woodframe Buildings using FEMA P-807 Methodology.", *ASCE Journal of Performance of Constructed Facilities*, [10.1061/\(ASCE\)CF.1943-5509.0000637](https://doi.org/10.1061/(ASCE)CF.1943-5509.0000637) , 04014153.
104. Bahmani, P. and J.W. van de Lindt. (2014). "Experimental Study of Layering Sheathing for Woodframe Walls.", *ASCE Journal of Structural Engineering: Special Issue on Seismic Resistant Timber Structures*, [10.1061/\(ASCE\)ST.1943-541X.0001134](https://doi.org/10.1061/(ASCE)ST.1943-541X.0001134) , E4014001.
105. Dao, T. and J. van de Lindt. (2014). "Numerical Seismic Performance of an Innovative CFS Midrise Building Designed Using DDD.", *Journal of Performance Constructed Facilities*, Vol 28 (5), 04014018.
106. Han, R., Y. Li, and J.W. van de Lindt. (2014). "Seismic Risk of Base Isolated Non-Ductile Reinforced Concrete Buildings Considering Uncertainties and Mainshock-Aftershock Sequences.", *Structural Safety*, 50 (9), 39–56.
107. Do, T., H. Mahmoud, and J.W. van de Lindt. (2014). "Sensitivity of Wind Turbine Tower Base Fatigue Life to Locations in Colorado.", *ASCE Journal of Performance of Constructed Facilities*, [10.1061/\(ASCE\)CF.1943-5509.0000612](https://doi.org/10.1061/(ASCE)CF.1943-5509.0000612) , 04014109.
108. Shao, X., J.W. van de Lindt, P. Bahmani, W. Pang, E. Ziaei, M.D. Symans, J. Tian, and T. Dao. (2014). "Real Time Hybrid Simulation of a Multi-Story Wood Shear Wall with First-Story Experimental Substructure Incorporating a Rate-Dependent Seismic Energy Dissipating Device.", Special Issue on Real Time Hybrid Testing in *Smart Structures and Systems*, Vol. 14, No. 6 (2014) 1031-1054.
109. Song, R., Y. Li, and J.W. van de Lindt. (2014). "Assessment of Seismic Performance of Buildings with Incorporation of Aftershocks.", *ASCE Journal of Performance of Constructed Facilities*, [10.1061/\(ASCE\)CF.1943-5509.0000596](https://doi.org/10.1061/(ASCE)CF.1943-5509.0000596) , 04014088.
110. van de Lindt, J.W. and Y. Jiang. (2014). "Regressive Model for Friction Pendulum Isolation Bearing Selection Based on Woodframe Building Performance.", *ASCE Structural Design and Construction*, 19 (3), 04014010.
111. Standohar-Alfano, C. and J.W. van de Lindt. (2014). "An Empirically-Based Probabilistic Tornado Hazard Analysis of the U.S. using 1973-2011 Data.", *ASCE Natural Hazards Review*, [10.1061/\(ASCE\)NH.1527-6996.0000138](https://doi.org/10.1061/(ASCE)NH.1527-6996.0000138) , 16 (1), 04014013.
112. Nazari, N., J.W. van de Lindt, and Y. Li. (2013). "Effect of Mainshock-Aftershock Sequences on Woodframe Building Damage Fragilities.", *ASCE Journal of Performance of Constructed Facilities*, [10.1061/\(ASCE\)CF.1943-5509.0000512](https://doi.org/10.1061/(ASCE)CF.1943-5509.0000512) , 29 (1), 04014036.
113. Jennings, E. and J.W. van de Lindt. (2014). "Numerical Seismic Retrofit Study of Light-frame Wood Buildings using Shape Memory Alloy Devices for Response Modification.", *ASCE Journal of Structural Engineering*, 140 (7), 04014041.

114. Pei, S., J.W. van de Lindt, S. Hartzell, and N. Luco. (2014). “Variability in Woodframe Building Damage using Broadband Synthetic Ground Motion: A Comparative Numerical Study with Recorded Motions.”, *Journal of Earthquake Engineering*, 10 (3), 389-406.
115. Amini, M.O. and J.W. van de Lindt. (2014) “Quantitative Insight into a Rational Tornado Design Wind Speed for Woodframe Residential Design using a Fragility Approach.”, *ASCE Journal of Structural Engineering*, 140 (7), 04014033.
116. Linton, D., R. Gupta, D. Cox, and J.W. van de Lindt. (2013). “Load Distribution in Light-Frame Wood Buildings under Experimentally Simulated Tsunami Loads.”, *ASCE Journal of Performance of Constructed Facilities*, [10.1061/\(ASCE\)CF.1943-5509.0000487](https://doi.org/10.1061/(ASCE)CF.1943-5509.0000487), 29 (1), 04014030.
117. Bahmani, P., J. van de Lindt, and T.N. Dao. (2014). “Displacement-Based Design of Buildings with Torsion: Theory and Verification.”, *ASCE Journal of Structural Engineering*, Vol 140 (6), 04014020.
118. Park, S., J.W. van de Lindt, and Y. Li. (2014). “ABV Hybrid Procedure for Hurricane Wind-Surge Loss Analysis.”, *Journal of Performance of Constructed Facilities*. 28 (2), 206-215.
119. Pei, S., J.W. van de Lindt, M. Popovski. (2013). “Approximate R-Factor for Cross Laminated Walls in Multi-Story Buildings.”, *ASCE Journal of Architectural Engineering*, 19 (4), 245-255.
120. Pei, S., M. Popovski, and J.W. van de Lindt. (2013). “Analytical Study on Seismic Force Modification Factors for Cross Laminated Timber Buildings for NBCC.”, *Canadian Journal of Civil Engineering*, 4 (9), 887-896.
121. 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.
122. Li, Y., R. Song, J.W. van de Lindt, and N. Luco. (2013). “Collapse Fragility of Steel Structures Subjected to Earthquake Mainshock-Aftershock Sequences.”, *Journal of Structural Engineering*, DOI:10.1061/(ASCE)ST.1943-541X.0001019.
123. Park, S., J.W. van de Lindt, and Y. Li. (2013). “Application of the Hybrid ABV Procedure for Assessing Community Risk to Hurricanes Spatially.”, *Natural Hazards*, 68 (2), 981-1000.
124. Pei, S., J. W van de Lindt, N. Wehbe, and H. Liu. (2013). “Experimental Study of Collapse Limits for Woodframe Shear Walls.”, *ASCE Journal of Structural Engineering*, 139 (9), 1489-1497.
125. Linton, D., R. Gupta, D. Cox, J.W. van de Lindt, M.E. Oshnack, and M. Clauson. (2013). “Tsunami Wave Forces on a Wood Wall at Full-Scale.”, *ASCE Journal of Structural Engineering*, 139 (8), 1318-1325. **2015 ASCE Raymond C. Reese Research Prize.**
126. Dao, T.N. and J.W. van de Lindt. (2013). “Seismic Performance of an Innovative Light-Frame Cold-Formed Steel Frame for Mid-Rise Construction.”, *ASCE Journal of Structural Engineering*, 139 (5), Special Issue: Cold-Formed Steel Structures, 837-848.
127. Luckisiri, K., T.H. Miller, R. Gupta, S. Pei, and J.W. van de Lindt. (2013). “Rapid Screening for Plan Irregularity in Single-Family, Wood-Frame Dwellings.”, *Journal of Earthquake Engineering*, 17 (2013), 497-516.
128. 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.
129. Vengala, J. and J.W. van de Lindt. (2013). “Seismic Performance of Single-Family Dwellings Constructed using Bamboo-Mortar Composite.”, *Asian Journal of Civil Engineering*, 14 (1), 33-45.

130. van de Lindt, J.W., D.V. Rosowsky, W. Pang, and S. Pei. (2013). "Performance-Based Seismic Design of Mid-Rise Woodframe Buildings.", *ASCE Journal of Structural Engineering*, 139 (8), 1294-1302.
131. Prevatt, D.O., J.W. van de Lindt, E.W. Back, A.J. Graettinger, S. Pei, R. Gupta, W. Coulbourne, D. James, and D. Agdas. (2012). "Making the Case for Improved Structural Design: The Tornado Outbreaks of 2011.", *ASCE Journal of Leadership and Management in Engineering*, 12 (4), 254-270.
132. van de Lindt, J.W., M.O. Amini, C. Standohar-Alfano, and T.N. Dao. (2012). "Systematic Study of the Loss of a Residential Roof System in a Tornado.", *Buildings*, 2012 (2), 519-533.
133. Park, S., J.W. van de Lindt, R. Gupta, and D. Cox. (2012). "Method to Determine Location for Tsunami Vertical Evacuation Shelters.", *Natural Hazards*, 63 (2), 891-908.
134. Li, Y. and J.W. van de Lindt. (2012). "Loss-Based Formulation for Multiple Hazards with Application to Residential Buildings.", *Engineering Structures*, 38 (2012), 123-133.
135. Park, S., J.W. van de Lindt, D. Cox, R. Gupta, and F. Aguiniga. (2012). "Successive earthquake-tsunami analysis to develop collapse fragilities.", *Journal of Earthquake Engineering*, 16 (2012), 851-863.
136. Dao, T.N., J.W. van de Lindt, D. Prevatt, and R. Gupta. (2012). "Probabilistic Procedure for Wood-frame Roof Sheathing Panel Debris Impact to Windows in Hurricanes.", *Engineering Structures*, 35 (2), 178-187.
137. Dao, T.N. and J.W. van de Lindt. (2012). "Loss Analysis for Woodframe Buildings During Hurricanes I: Structure and Hazard Modeling.", *ASCE Journal of Performance of Constructed Facilities*, 26 (6), 729-738.
138. van de Lindt, J.W. and T.N. Dao. (2012). "Loss Analysis for Woodframe Buildings During Hurricanes. II: Loss Estimation.", *ASCE Journal of Performance of Constructed Facilities*, 26 (6), 739-747.
139. Lucksiri, K., T.H. Miller, R. Gupta, S. Pei, and J.W. van de Lindt. (2012). "Effect of Plan Configuration on the Seismic Performance of Wood-Frame, Single Family Dwellings.", *Natural Hazards Review*, 13(1).
140. Li, Y., J.W. van de Lindt, T.N. Dao, S. Bjarnadottir, and A. Ahuja. (2012). "Loss Analysis for Combined Wind and Surge in Hurricanes.", *ASCE Natural Hazards Review*, 13 (1), 1-10.
141. Martin, K., R. Gupta, D. Prevatt, P.L. Datin, J.W. van de Lindt. (2012). "Evaluation of System Effects and Structural Load Paths in a Wood Framed Structure.", *ASCE Journal of Architectural Engineering*, J. Archit. Eng., 17, 134.
142. van de Lindt, J.W., S. Pei, W. Pang, and S. Sharazi. (2012). "Collapse testing and Analysis of a Light-Frame Wood garage Wall.", 138 (4), 492-501.
143. Wu, J., S. Chen, and J.W. van de Lindt. (2012). "Fatigue Assessment of Slender Long Span Bridges: A Reliability Approach.", *Journal of Bridge Engineering*, 17 (1), 47-57.
144. 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.
145. Pei, S. and J.W. van de Lindt. (2011). "Numerical Modeling of a Six-Story Light-Frame Wood Building: Comparison with Experiments.", *Journal of Earthquake Engineering*, 15 (2011), 924-941.



146. van de Lindt, J.W. and R.K. Rechan. (2011). "Seismic Performance Comparison of a High Content SDA Frame and Standard RC Frame.", *Advances in Civil Engineering*, Volume 2011 (2011), Article ID 478475.
147. van de Lindt, J.W., S.E. Pryor, and S. Pei. (2011). "Shake Table Testing of a Full-Scale Seven-Story Steel-Wood Apartment Building.", *Engineering Structures*, 33 (3), 757-766.
148. Riley, C.E., R. A. Atadero, J.W. van de Lindt, and P. R. Heyliger. (2011). "Cementitious SDA-Tire Fiber Material for Maximizing Waste Product Diversion.", *Advances in Civil Engineering*, Volume 2011 (2011), Article ID 354305.
149. Goode, J.S. and J.W. van de Lindt. (2011). "Reliability-Based Design of Medium Mast Lighting Structural Supports.", *Structure and Infrastructure Engineering*, DOI: 10.1080/15732479.2011.598170.
150. Mensah, A.F., P.L. Datin, D.O. Prevatt, R. Gupta, and J.W. van de Lindt. (2011). "Database-Assisted Design Methodology to Predict Wind-Induced Structural Behavior of a Light-Framed Wood Building.", *Engineering Structures*, 33 (2), 674-684.
151. Liu, S. and J.W. van de Lindt. (2011). "Prescriptive Approach to the Performance-Based Seismic Design of Low-Rise Residential Buildings.", *ASCE Journal of Performance of Constructed Facilities*, 25 (4), 268-276.
152. Pei, S., J.W. van de Lindt, C. Ni, and S.E. Pryor. (2011). "Seismic Behavior of a Five-Story Double-Midply Wood Shear Wall Stack within a Full-Scale Building.", *Canadian Journal of Civil Engineering*, 37 (9), 1261-1269.
153. Ni, C., S. Pei, J.W. van de Lindt, S. Kuan, and M. Popovski. (2011). "Nonlinear Time History Analysis of Six-Story Wood Platform Frame Buildings in Vancouver, B.C..", *Earthquake Spectra*, 28 (2), 621-637.
154. van de Lindt, J.W., H. Liu, M.D. Symans, and J. Shinde. (2010). "Seismic Performance of a Half-Scale Base Isolated Wood Frame Building.", *Journal of Earthquake Engineering*, 15 (3), 469-490.
155. 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. **American Society of Civil Engineers Raymond C. Reese Research Prize.**
156. van de Lindt, J.W., S. Pei, W. Pang, and D.V. Rosowsky. (2010). "IDA Comparison of an IBC-Designed and the DDD Six-Story NEESWood Building.", *ASCE Journal of Performance of Constructed Facilities*, 25 (2), 138-142.
157. van de Lindt, J.W. and T.N. Dao. (2010). "Construction Quality Issues in Performance-Based Wind Engineering: Effect of Missing Fasteners.", *Wind and Structures*, 13 (3), 221-234.
158. Black, G., R.A. Davidson, S. Pei, and J.W. van de Lindt. (2010). "Empirical Loss Analysis to Support Selection of Seismic Performance Objectives in Woodframe Building Design.", *Structural Safety*, 32 (3), 209-219.
159. van de Lindt, J.W. and A. Stone. (2010). "Rapid Girder Selection and Cost Estimation for Simple Made Continuous Steel Bridge Design.", *ASCE Practice Periodical on Structural Design and Construction*, 15 (4), 287-293.
160. Pang, W., D.V. Rosowsky, S. Pei, and J.W. van de Lindt. (2010). "Simplified Direct Displacement Design of a Six-Story Woodframe Building and Pre-Test Performance Assessment.", *Journal of Structural Engineering*, 136 (7), 813-825.

161. 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.
162. van de Lindt, J.W., S. Pei, H. Liu, and A. Filiatrault. (2010). "Seismic Response of a Full-Scale Light-Frame Wood Building: A Numerical Study.", *ASCE Journal of Structural Engineering*, 136 (1), 56-65.
163. Filiatrault, A, I. Christovasilis, A. Wanitkorkul, and J.W. van de Lindt. (2010). "Experimental Seismic Response of a Full-Scale Light-Frame Wood Building.", *ASCE Journal of Structural Engineering*, 136 (3), 246-254.
164. Pei, S. and J.W. van de Lindt. (2010). "Influence of Structural Properties and Hazard Level in Seismic Loss Estimation.", *Engineering Structures: The Journal of Earthquake, Wind, and Ocean Engineering*, 32 (8), 2183-2191.
165. Stone, A., J.W. van de Lindt, and S. Chen. (2010). "Design and Costs for Rolled Section Simple-Made-Continuous Steel Bridges: A Literature Review.", *ASCE Practice Periodical on Structural Design and Construction*, 15 (3), 231-235.
166. Oshnack, M.B., F. Aguiniga, D. Cox, R. Gupta, and J.W. van de Lindt. (2009). "Experimental Measure of the Effectiveness of Small Seawalls in Reducing Tsunami Forces.", *Journal of Disaster Research*, 4 (6), 382-390.
167. van de Lindt, J.W., R. Gupta, D.T. Cox, and J.S. Wilson. (2009). "Wave Impact Study on a Residential Building.", *Journal of Disaster Research*, 4 (6), 419-426.
168. van de Lindt, J.W. and T.N. Dao. (2009). "Performance-Based Wind Engineering for Woodframe Buildings.", *ASCE Journal of Structural Engineering*, 135 (2), 169-177.
169. Wilson, J, R. Gupta, J.W. van de Lindt, M. Clauson, and R. Garcia. (2009). "Behavior of a One-Sixth Scale, Wood-Framed Residential Structure Under Wave Loading.", *ASCE Journal of Performance of Constructed Facilities*, 23 (5), 336-345.
170. Pei, S. and J.W. van de Lindt. (2009). "Methodology for Long-Term Seismic Loss Estimation: An Application to Woodframe Buildings.", *Structural Safety*, 31 (2009), 31-42.
171. Park S. and J.W. van de Lindt. (2009). "Seismic Fragilities for Light-Frame Wood Buildings Based on Visually Determined Damaged Indices.", *ASCE Journal of Performance of Constructed Facilities*, 23 (5), 346-352.
172. van de Lindt, J.W., R. Gupta, R. Garcia, and J. Wilson. (2009). "Tsunami Bore Forces on a Compliant Residential Building Model.", *Engineering Structures*, 31 (2009), 2534-2539.
173. van de Lindt, J.W. and M. Taggart. (2009). "Fragility Analysis Framework for Performance-Based Analysis of Wood Frame Buildings for Flood.", *ASCE Natural Hazards Review*, 10 (3), 113-123.
174. Pei, S. and J.W. van de Lindt. (2009). "Coupled Shear-Bending Formulation for Seismic Analysis of Stacked Shear Wall Systems.", *Earthquake Engineering and Structural Dynamics*, 38 (2009), 1631-1647.
175. van de Lindt, J.W., Y. Li, W.M. Bulleit, R. Gupta, and P. I. Morris. (2009). "The Next Step for ASCE 16 : Performance-Based Design of Wood Structures.", *ASCE Journal of Structural Engineering*, 135 (6), 611-618.
176. Pei, S. and J.W. van de Lindt. (2009). "Systematic seismic design of woodframe structures for

- manageable loss.”, *Earthquake Spectra*, 25 (4), 851-868.
177. Taggart, M. and J.W. van de Lindt. (2009). “Design of Residential Buildings for Flood Based on Manageable Loss.”, *ASCE Journal of Performance of Constructed Facilities*, 23 (2), 56-64.
  178. van de Lindt, J.W., J.A.H. Cararro, P.R. Heyliger, and C. Choi. (2008). “Application and Feasibility of Coal Fly Ash for Wood Wall Insulation in Residential Buildings.”, *Resources, Conservation & Recycling*, Vol 52 (10), 1235-1240.
  179. van de Lindt, J.W. and A. Potts. (2008). “Shake Table Testing of a Superelastic Shape Memory Alloy Response Modification Device in a Wood Shearwall.”, *ASCE Journal of Structural Engineering*, 134 (4), 1343-1352.
  180. Dao, T.N. and J.W. van de Lindt. (2008). “New Roof Sheathing Nail Model for use in FE Wind Applications.”, *ASCE Journal of Structural Engineering*, 134 (10), 1668-1674.
  181. van de Lindt, J.W. and R. Atadero. (2008). “Shake Table Test Results for a Half-Scale Indonesian RC House with and without Economical Base Isolation.”, *The Asian Journal of Civil Engineering*, 9 (1), 1-14.
  182. van de Lindt, J.W. (2008). “Experimental Investigation of the Effect of Multiple Earthquakes on Woodframe Structural Integrity.”, *ASCE Practice Periodical on Structural Design and Construction*, 13 (3), 111-117.
  183. van de Lindt and J.W., S. Pei, and H. Liu. (2008). “Performance-Based Seismic Design of Woodframe Buildings using a System Identification Concept.”, *ASCE Journal of Structural Engineering*, 134 (2), 240-247.
  184. van de Lindt, J.W. (2008). “Energy-Based Similitude for Dynamic Scaling of Woodframe Structures.”, *Journal of Earthquake Engineering*, 12 (2), 281-292.
  185. van de Lindt, J.W. and T.N. Dao. (2007). “Evolutionary Algorithm for Performance-Based Shearwall Design in Buildings Subjected to Multiple Load Types.”, *ASCE Journal of Structural Engineering*, 133 (8), 1156-1167.
  186. van de Lindt, J.W. (2007). “Experimental Behavior of Mechanical In-Flange Connectors.”, *The Open Civil Engineering Journal*, 2007 (1), 13-24.
  187. Pang, W., D.V. Rosowsky, S. Pei, and J.W. van de Lindt. (2007). “Evolutionary Parameter hysteretic Model for PBSB Applications.”, *ASCE Journal of Structural Engineering*; 133 (8), 1118-1129.
  188. Agarwal, V.K., J.M. Niedzwecki, and J.W. van de Lindt. (2007). “Earthquake Induced Pounding in Friction Varying Base Isolated Buildings.”, *Engineering Structures: The Journal of Earthquake, Wind, and Ocean Engineering*, 2007 (29), 2825-2832.
  189. Goode, J.S. and J.W. van de Lindt. (2007). “Development of a Semi-Prescriptive Selection Procedure for Reliability-Based Fatigue Design of High Mast Lighting Structural Supports.”, *ASCE Journal of Performance of Constructed Facilities*; 21 (3); 193-206.
  190. van de Lindt J.W. and H. Liu. (2007). “Non-Structural Elements in Performance-Based Seismic Design of Woodframe Structures.”, *ASCE Journal of Structural Engineering*; 133 (3); 432-439.
  191. van de Lindt, J.W., H. Liu, and S. Pei. (2007). “Performance of a Woodframe Structure During Full-Scale Shake Table Tests: Drift, Damage, and Effect of Partition Wall.”, *ASCE Journal of Performance of Constructed Facilities*; 21 (1); 35-43.

192. 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. **Nominated for the Journals 2007 Outstanding Paper Award.**
193. van de Lindt, J.W. and M.W. Drewek. (2007). "Inverse-FORM Modeling for Initial Seismic Retrofit.", *International Journal of Modeling and Simulation*; 27 (3); 1-11.
194. van de Lindt, J.W. and S. Pei. (2006). "Buckling Reliability of Deteriorating Steel Beam Ends.", *Electronic Journal of Structural Engineering*, 2006 (6), 1- 7.
195. van de Lindt, J.W. and R. Gupta. (2006). "Damage and Damage Prediction for Wood Shearwalls Subjected to Simulated Earthquake Loads.", *ASCE Journal of Performance of Constructed Facilities*, 20 (2), 176-184.
196. van de Lindt, J.W. (2005). "Modeling Earthquake Risk Based on Approximate Nonlinear Reliability Estimates.", *International Journal of Modeling and Simulation*, 25(3), 202-209.
197. van de Lindt, J.W., T.M. Ahlborn, and S. Kethu. (2005). "Alternate Approach to Approximate Deteriorated Steel Beam End Capacity.", *Transportation Research Record: Journal of the Transportation Research Board*, 2005.
198. van de Lindt, J.W., J.N. Huart, and D.V. Rosowsky. (2005). "Strength-Based Seismic Reliability of Wood Shearwalls.", *ASCE Journal of Structural Engineering*, 131 (8), 1307-1312.
199. van de Lindt, J.W., T.M. Ahlborn, and M.E. Lewis. (2005). "Practical Fatigue/Cost Assessment of Steel Overhead Sign Support Structures Subjected to Wind Load.", *Wind and Structures, an International Journal*, 8 (5), 343-356.
200. van de Lindt, J.W. and H.A. de Melo e Silva. (2005). "Uniform Serviceability Load Limits for Mechanical Flange Connectors.", *ASCE Practice Periodical on Structural Design and Construction*, 10 (1), 34-39.
201. van de Lindt, J.W., G. Fu, Y. Zhou, and R.M. Pablo Jr. (2005). "Locality of Truck Loads and Adequacy of Bridge Design Loads.", *ASCE Journal of Bridge Engineering*, 10 (5), 622-629.
202. van de Lindt, J.W. (2005). "Damage-Based Seismic Reliability Concept for Woodframe Structures.", *ASCE Journal of Structural Engineering*, 131 (4), 668-675.
203. van de Lindt, J.W. and D.V. Rosowsky. (2005). "Strength-Based Reliability of Wood Shearwalls Subjected to Wind Load.", *ASCE Journal of Structural Engineering*, 131 (2), 359-363.
204. van de Lindt, J.W. and J.M. Niedzwecki (2005). "Structural Response and Reliability Estimates: A Slepian Model Approach.", *ASCE Journal of Structural Engineering*, 131 (10), 1620-1628.
205. van de Lindt, J.W. and G-H Goh. (2004). "Effect of Total Earthquake Duration on Structural Reliability.", *Engineering Structures*, 26 (2004), 1585-1597.
206. van de Lindt, J.W. and G. Goh. (2004). "An Earthquake Duration Effect on Structural Reliability.", *Journal of Structural Engineering*, 130 (5), 821-826.
207. van de Lindt, J.W. (2004). "Evolution of Wood Shear Wall Testing, Modeling, and Reliability Analysis: A Bibliography.", *ASCE Practice Periodical on Structural Design and Construction*, 9 (1), 44-53.
208. Ahlborn, T.M., J.W. van de Lindt, and M.E. Lewis. (2004). "Cost and Performance Comparison of the Nation's Overhead Sign Support Structures.", *Transportation Research Record: Journal of the Transportation Research board*, 2004.

209. van de Lindt, J.W. and M.A. Walz. (2003). "Development and Application of a Wood Shear Wall Reliability Model.", *ASCE Journal of Structural Engineering*, 129 (3), 405-413.
210. van de Lindt, J.W. and J. M. Niedzwecki. (2002). "An Inverse-Reliability Approach to Generating Composite Seismic Response Spectra.", *International Journal of Modeling and Simulation*, 22 (1), 47-56.
211. van de Lindt, J.W. and J.M. Niedzwecki. (2000). "Methodology for Reliability-Based Design Earthquake Identification.", *ASCE Journal of Structural Engineering*, 126 (12), 1420-1426.
212. van de Lindt, J.W. and J.M. Niedzwecki. (2000). "Environmental Contour Analysis in Earthquake Engineering.", *Engineering Structures*, 2000 (12), 1661-1676.
213. Niedzwecki, J.M., J.W. van de Lindt, J.H. Gage, and P.S. Teigen. (2000). "Design Estimates of Surface Wave Interaction with Compliant Deepwater Platforms.", *Journal of Ocean Engineering*, 2000 (27), 867-888.
214. van de Lindt, J.W. and J.M. Niedzwecki. (1999). "Reliability Estimates for Multi-peaked Random Seas.", *International Journal of Offshore and Polar Engineering*, 9 (3), 12-17.
215. Niedzwecki, J.M., J.W. van de Lindt, and E.W. Sandt. (1999). "Characterizing Random Wave Surface Elevation Data.", *Journal of Ocean Engineering*, 1999 (26), 401-430.
216. Niedzwecki, J.M., J.W. van de Lindt, and J.T.P. Yao. (1998). "Estimating Extreme Tendon Response Using Environmental Contours.", *Engineering Structures*, 1998 (7), 601-607.

#### **Refereed Journal Publications Currently in Review/Submitted**

1. Wang, W(L), J.W. van de Lindt, B. Hartman, H. Cutler, J. Kruse, T.P. McAllister, S. Hamideh. (2021). "Determination of Individual Building Performance Targets to Achieve Community-Level Social and Economic Resilience Metrics.", *Journal of Structure and Infrastructure Engineering*, In Review.
2. Johnston, B and J. W. van de Lindt. (2021). "Barriers and Possibilities for Interdisciplinary Disaster Science Research: A Critical Appraisal of the Literature.", *Natural Hazards Review Journal*, In Review.
3. Field, C., E.J. Sutley, N. Naderpajouh, J.W. van de Lindt, D. Butry, J. Smith-Colin, and M. Koliou. (2021). "Incorporating Socio-economic Metrics in Civil Engineering Projects: The Resilience Perspective.", *Natural Hazards Review Journal*, In Review.
4. R. Honercamp, G. Yan, and J.W. van de Lindt. (2021). "Comparison of Two Approaches of Simulating the Translation of Tornado-Like Vortex in Laboratory Tornado Simulator.", *Wind Engineering and Industrial Aerodynamics*, In Review.
5. Crawford, P.S., J. Mitrani-Reiser; E.J. Sutley; T.Q. Do; T. Tomiczek; O. M. Nofal; J. M. Weigand; M. Watson; J.W. van de Lindt; A.J. Graettinger. (2021). "Measurement Approach to Develop Flood-Based Damage Fragilities for Residential Buildings Following Repeat Inundation Events.", *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*. In Review.
6. Basaglia, A., J.W. van de Lindt, and E. Spacone. (2020). "Modeling the Change of Patient Hospital Flow during Major Seismic Events.", *Operations Research for Healthcare*, In Review.

7. Davis, C.A., B. Ayyub, S. McNeil, K. Kobayashi, H. Tatano, M. Onishi, Y. Takahashi, R. Honda, T. Koike, and J.W. van de Lindt. (2020). "Infrastructure Resilience: A Framework for Assessment, Management, and Governance.", *ASCE Journal of Infrastructure Systems*, In Review.

#### Non-refereed Journals, Other Articles, Survey Instruments, and Data Sets

1. Tobin, J. L. Peek, J. van de Lindt, E. Sutley, M. Dillard, M. Watson, J. Helgeson, S. Hamideh, and J. Mitrani-Reiser. (2021) "Institutional Review Board Protocol 2015 – 2020.", in *A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016*. DesignSafe-CI. <https://doi.org/10.17603/ds2-9w11-tn85>
2. Sutley, E., M. Dillard, S. Hamideh, W. Peacock, J. Tobin, L. Peek, K. Seong, A. Barbosa, T. Tomiczek, J. van de Lindt, and D. Gu. (2020) "Household Survey Instrument, January 19, 2018: Wave 2.", in *A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016*. DesignSafe-CI. <https://doi.org/10.17603/ds2-db3h-gy28>.
3. Xiao, Y., M. Watson, J. Helgeson, K. Farokhnia, J. van de Lindt, J. Mitrani-Reiser, E. Sutley, D. Deniz, T. Tomiczek, A. Barbosa, J. Fung, O. Nofal, and M. Koliou. (2020) "Business Survey Instrument, January 19, 2018: Wave 2.", in *A Longitudinal Community Resilience Focused Technical Investigation of the Lumberton, North Carolina Flood of 2016*. DesignSafe-CI. <https://doi.org/10.17603/ds2-f9kt-fm93>.
4. Ellingwood, B.R., J.W. van de Lindt and T.P. McAllister. (2019). "A fully integrated Model of Interdependent Physical Infrastructure and Social Systems.", *The Bridge: Linking Engineering and Society, Engineering for Disaster Resilience*, National Academies, Summer 2019, pp. 43-51.
5. Bahmani, P., van de Lindt, J.W., Pryor, S.E., Mochizuki, G.L., Gershfeld, M., Rammer, D., Tian, J. and Symans, M.D. (2014). "Performance-Based Seismic Retrofit of Soft-Story Wood Buildings.", *Structure Magazine, National Council of Structural Engineers Associations (NCSEA)*, Vol. 21, No. 6 (June 2014 Issue), pp. 24-27.
6. Pryor, S.E., John W. van de Lindt, and P. Bahmani. (2014). "Full-Scale Testing of Soft-Story Wood-Frame Buildings Retrofitted with Simpson Strong-Tie Strong-Frame Steel Moment Frames.", *Structure Magazine*, ASCE, To Appear.
7. Gershfeld, M., C. Chadwell, J.W. van de Lindt, M.O. Amini, and S. Gordon. (2014). "Retrofitting Soft-Story Wood-Frame Buildings with Distributed Knee-Braced (DKB) Frames.", *Wood Design Focus: A Journal of Contemporary Wood Engineering*, To Appear.
8. Bahmani, P., J.W. van de Lindt, S.E. Pryor, G.L. Mochizuki, M. Gershfeld, D. Rammer, J. Tian, and M.D. Symans. (2014). "Performance-Based Seismic Retrofit of Soft-Story Woodframe Buildings.", *Wood Design Focus: A Journal of Contemporary Wood Engineering*, To Appear.
9. Pryor, S.E., J.W. van de Lindt, and P. Bahmani. (2014). "Full-Scale Testing of Soft-Story Wood-Frame Buildings Retrofitted with Simpson Strong-Tie Strong-Frame Steel Moment Frame Retrofits.", *Structure Magazine*.
10. Prevatt, D.O., J.W. van de Lindt, R. Gupta, and B. Coulbourne. (2011). "Tuscaloosa Tornado: Preliminary Observations of Wood-Frame Building damage.", *Structure Magazine*, July.
11. Pei, S. and J.W. van de Lindt. (2010). "Shake Table Test Results for the NEESWood Capstone Building.", *Wood Design Focus: A Journal of Contemporary Wood Engineering*, 20(1).

12. van de Lindt, J.W., D.V. Rosowsky, S. Pei, and W. Pang. (2010). "Objectives of the NEESWood Capstone Tests: Six-Story Light-Frame Seismic Construction using PBSB.", *Wood Design Focus: A Journal of Contemporary Wood Engineering*, 20(1).
13. van de Lindt, J.W. and S. Pei. (2010). "Shake Table Testing of a Six-Story 14000 Square Foot Light-Frame Wood Building.", *Wood Design Focus: A Journal of Contemporary Wood Engineering*, 20(1).
14. van de Lindt, J.W., S. Pei, and S.E. Pryor. (2010). "Construction of the Capstone Specimen.", *Wood Design Focus: A Journal of Contemporary Wood Engineering*, 20(1).
15. Pryor, S.E., J.W. van de Lindt, and S. Pei. (2010). "Seismic Testing of a Seven-Story Mixed-Use Steel and Wood Light-frame Structure.", *Structure Magazine*, May 2010.
16. van de Lindt, J.W., R. Gupta, and K. J. Fridley. (2008). "Summary of Wind Effects on Residential Structures During Hurricane Katrina.", *Wood Design Focus: A Journal of Contemporary Wood Engineering*, 18(4).
17. van de Lindt, J.W., R. Garcia, R. Gupta, and J. Wilson. (2008). "Effect of Wind-Driven Hurricane Waves on Wood-Framed Building.", *Wood Design Focus: A Journal of Contemporary Wood Engineering*, 18(4).
18. van de Lindt, J.W., H. A. de Melo e Silva, J.N. Huart, and D.V. Rosowsky. (2005). "Reliability of Wood Shearwalls to Natural Hazard Loading.", *Wood Design Focus: A Journal of Contemporary Wood Engineering*, 15 (1), 16-18.

## Book Chapters

1. ATC 114, Recommendation for Nonlinear Modeling in ASCE 41, Wood Chapter Author.
2. van de Lindt, J.W., H. Masoomi, N. Attary, C.D. Standohar-Alfano. (2018). Tornado damage modeling: Single buildings, communities, and regions. *Handbook of Sustainable and Resilient Infrastructure*. P. Gardoni (Ed.), 115-133, Routledge.
3. van de Lindt, J.W., P. Line, M. Popovski, D. Rammer, and S. Pei. (2013). "Chapter 4: Lateral Design of Cross Laminated Timber.", U.S. Edition of the Cross Laminated Timber Handbook, FPInnovations and the American Wood Council.
4. van de Lindt, J.W. and S. Pei. (2008). "Seismic Reliability of Nonlinear Structural Systems.", Nova Publishers.
5. van de Lindt, J.W. and S. Pei (2015). "Progress in the Performance-Based Seismic Design of Light-Frame Wood Buildings.", *Developing Trends in Seismic design of Structures*, Ed.: N.D. Lagaros, Y. Tsompanakis, and M. Papadrakakis.

## Conference Proceedings

1. van de Lindt, J.W. (2020). Understanding and Modeling the Resilience Life Cycle of Communities: A Multi-Disciplinary Endeavour. *IALCCE*, Shanghai, China (Virtual).
2. van de Lindt, J.W., B.R. Ellingwood, H. Cutler, P. Gardoni, J.S. Lee. 2019. The structure of the Interconnected Networked Community Resilience Modeling Environment (IN-CORE). *Proceedings of the 2<sup>nd</sup> International Conference on Natural Hazards and Infrastructure*, 23-26 June, 2019, Chania, Greece.
3. M.S. Alam, M. Scott, D.T. Cox, and J.W. van de Lindt. (2019). "Multi-hazard Earthquake-Tsunami Structural Fragility Assessment Framework", 13<sup>th</sup> International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP 13, Seoul, Korea, May 26- 30, 2019.
4. D. Deniz, E. Sutley, J. W. van de Lindt, W.G. Peacock, N. Rosenheim, D. Gu, J. Mitrani-Reiser, M. Dillard, M. Koliou and S. Hamideh. (2019). "Flood Performance and Dislocation Assessment for Lumberton Homes after Hurricane Matthew.", 13<sup>th</sup> International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP 13, Seoul, Korea, May 26- 30, 2019.
5. H. Masoomi and J. W. van de Lindt. (2019). "Minimum Performance Targets for the Built Environment based on Community-Resilience Objectives.", 13<sup>th</sup> International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP 13, Seoul, Korea, May 26- 30, 2019.
6. E. Sutley, S. Hamideh, M. Dillard, D. Gu, K. Seong and J. W. van de Lindt. (2019). "Integrative Modeling of Housing Recovery as a Physical, Economic, and Social Process.", 13<sup>th</sup> International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP 13, Seoul, Korea, May 26- 30, 2019.
7. J. van de Lindt, H. Mahmoud, S. Pilkington, M. Koliou, N. Attary, H. Cutler, S. Smith, N. Rosenheim, C. Navarro, Y-W Kim, and J. Lee. (2019). "Validating Interdependent Community Resilience Modeling using Hindcasting.", 13<sup>th</sup> International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP 13, Seoul, Korea, May 26- 30, 2019.
8. M.S. Alam, M. Scott, D.T. Cox, and J.W. van de Lindt. (2019). "Multi-hazard Earthquake-Tsunami Structural Fragility Assessment Framework", 13<sup>th</sup> International Conference on Applications of Statistics and Probability in Civil Engineering, ICASP 13, Seoul, Korea, May 26- 30, 2019.
9. J. van de Lindt, N. Attary, H. Mahmoud, S. Pilkington, M. Koliou, H. Cutler, S. Zahran, W. Peacock, and N. Rosenheim. (2018). "Hindcasting Validation of a Resilience Computational Environment Architecture: Five Years of Recovery Following the 2011 Joplin, Missouri Tornado.", 6<sup>th</sup> International Symposium on Reliability Engineering and Risk Management, NUS, Singapore, May 31- June 1, 2018.
10. J. van de Lindt, B.R. Ellingwood, T. McAllister, P. Gardoni and D. Cox. (2018). "Progress and Challenges in modeling community resilience: an update on the center for risk-based community resilience planning, 6<sup>th</sup> International Symposium on Reliability Engineering and Risk Management, NUS, Singapore, May 31- June 1, 2018.
11. S. Pei, J. van de Lindt, A. Barbosa, J. Berman, H.-E. Blomgren, J. Dolan, E. McDonnell, R. Zimmerman, M. Fragiaco and D. Rammer. (2018). "Full-scale Shake Table Test of Two-Story Mass-Timber Building with Resilient Rocking Walls.", 16<sup>th</sup> European Conference on Earthquake Engineering, Thessaloniki, June 18-21, 2018.
12. J. van de Lindt, J. Furley, M. O. Amini, S. Pei, G. Tamagnone, A. Barbosa, D. Rammer, M. Fragiaco and M. Popovski. (2018). "Experimental Seismic Behavior of a Two-Story CLT Platform Building: Design and Shake Table Testing.", 16<sup>th</sup> European Conference on Earthquake Engineering, Thessaloniki, June 18-21, 2018.



13. P. Gardoni, J.W. van de Lindt, B.R. Ellingwood, J.S. Lee, H. Cutler, W. Peacock, and D.T. Cox. (2018). The Interdependent Networked Community Resilience Modeling Environment (IN-CORE). *Proceedings of 16th European Conference on Earthquake Engineering (16ECEE)*, Thessaloniki, Greece, June 18 – 21, 2018.
14. M. Koliou, and J.W. van de Lindt. (2018). “Nonlinear Modeling of Wood Frame Shear Walls for Performance Based Earthquake Engineering.”, 11<sup>th</sup> U.S. National Conference on Earthquake Engineering, Los Angeles, CA, June 25-29, 2018.
15. N. Attary and J.W. van de Lindt. (2018). “Resiliency Enhancement of Communities Prone to Multi-Hazard Case of Tsunami and Earthquake.”, 11<sup>th</sup> U.S. National Conference on Earthquake Engineering, Los Angeles, CA, June 25-29, 2018.
16. J. van de Lindt, B. Ellingwood, D. Cox, and P. Gardoni. (2018). “Modeling Community Resilience to Earthquakes and Tsunamis: An Overview of the Center for Risk-Based Community Resilience Planning.”, 11<sup>th</sup> U.S. National Conference on Earthquake Engineering, Los Angeles, CA, June 25-29, 2018.
17. S. Pei, J.W. van de Lindt, A. Barbosa, H.-E. Blomgren, J. Berman, J.D. Dolan, E. McDonnell, and R.B. Zimmerman. (2018). “Full-Scale Shake Table Testing of a Two-Story Mass-Timber Rocking Wall Building.”, 11<sup>th</sup> U.S. National Conference on Earthquake Engineering, Los Angeles, CA, June 25-29, 2018.
18. S. Wichman, A. Barbosa, D. Dolan, E. McDonnell, J. Berman, J.W. van de Lindt, R. Zimmerman and S. Pei. (2018). “Dynamic Testing and Analysis of Multi-Story Rocking Cross Laminated Timber Walls.”, 11<sup>th</sup> U.S. National Conference on Earthquake Engineering, Los Angeles, CA, June 25-29, 2018.
19. S. Pei, J.W. van de Lindt, A. Barbosa, J. Berman, E. McDonnell, J. Dolan, R.B. Zimmerman, R. Sause, J. Ricles, and K. Ryan. (2018). “Full-Scale Shake Table Test of Mass-Timber Building with Resilient Post-Tensioned Rocking Walls.”, 2018 World Conference on Timber Engineering, Seoul, Republic of Korea, August 20-23, 2018.
20. M. Koliou, Masoomi, H. and van de Lindt, J.W. (2017), “Fragility Assessment of Buildings with Rigid Walls and Flexible Roof Diaphragms subjected to Earthquake and Tornado”, 16<sup>th</sup> World Conference on Earthquake Engineering (16WCEE), Santiago, Chile, January 9-13, 2017.
21. E.J. Sutley, J.W. van de Lindt, and L. Peek (2017). “Improving Community Seismic Disaster Resilience through Pre-Event Planning with Engineering, Socioeconomic and Demographic Considerations.” 16<sup>th</sup> World Conference on Earthquake Engineering, Santiago, Chile, January 9-13, 2017.
22. S. Pei, J.W. van de Lindt, J. Ricles, R. Sause, J. Berman, K. Ryan, J.D. Dolan, A. Buchanan, T. Robinson, E. McDonnell, H. Blomgren, M. Popovski, and D. Rammer. (2017). “Development and full-scale validation of resilience-based seismic design of tall wood buildings: the NEHRI Tallwood Project.”, *New Zealand Society for Earthquake Engineering Annual Conference (NZSEE 2017 Conference)*, Wellington, New Zealand, April 27-29, 2017.
23. M. Koliou and J.W. van de Lindt. (2017). “From Performance Based Engineering to Community Resilience: Buildings under Extreme Ground Shaking”, 3<sup>rd</sup> *Huixian International Forum on Earthquake Engineering for Young Researchers*, University of Urbana-Champaign, IL, Urbana, IL, August 11-12, 2017.
24. M. O. Amini, J.W. van de Lindt, D. Rammer, S. Pei, P. Line and M. Popovski. (2016). “Determination of Seismic Performance Factors for CLT Shear Wall Systems”, *World Conference on Timber Engineering (WCTE 2016)*, Vienna, Austria, August 22 – 25, 2016.

25. V. Unnikrishnan, J.W. van de Lindt, and M. Koliou. (2016). "Functionality and interdependence of electrical power networks and building recovery following natural disasters.", Urban Transitions Global Summit 2016, Shanghai, China, September 5-9, 2016.
26. B. R. Ellingwood, J.W. van de Lindt, D. Cox, N. Wang, H. Cutler, W. Peacock, and P. Gardoni. (2016). "Introducing the NIST center of excellence for risk-based community resilience planning: Part II: Center of excellence community resilience testbeds, climate change and upcoming center research activities.", World 1<sup>st</sup> International Workshop on Resilience, September 20-22, 2016, Torino, Italy.
27. M. Koliou and J.W. van de Lindt. (2016). "Functionality fragility assessment in the context of community resilience.", 1<sup>st</sup> International Workshop on Resilience, September 20-22, 2016, Torino, Italy.
28. A.R. Barbosa, M. Alam, D. Cox, and J.W. van de Lindt. (2016). "Earthquake and tsunami fragility surfaces for a masonry infilled reinforced concrete building structure.", 1<sup>st</sup> International Workshop on Resilience, September 20-22, 2016, Torino, Italy.
29. Stephen Cauffman, David Mizzen, Jay Raskin, and J.W. van de Lindt. (2016). "Guidance for Disaster Resilience Planning.", ASCE 2016 Convention, Portland, OR, September 28-October 1, 2016.
30. John W. van de Lindt. (2016). "The Role of Structural Robustness in Risk-Informed Community Resilience Planning.", 2016 SEAOC Convention, Maui, Hawaii, October 12-15, 2016.
31. Jeffrey Berman, Ryan Ganey, J. Daniel Dolan, Sara Loftus, Richard Sause, Jim Ricles, Lihong Yao, Tugce Akbas, Shiling Pei, and J.W. van de Lindt. (2015). "Experiments on Resilient Seismic Force Resisting System for Tall Buildings Using Post Tensioned CLT Walls.", World Conference Timber Engineering.
32. J.W. van de Lindt, B. Ellingwood, T. McAllister, P. Gardoni, D. Cox, H. Cutler, and W. Peacock, (2015). "A New Computational Environment for Modeling and Enhancing Community Resilience: Introducing the Center for Risk-Based Community Resilience Planning.", PLSE 2015, December 9-11, Brisbane, Australia.
33. van de Lindt, J.W., N. Nazari, and Y. Li. (2015). "Quantifying and Accounting for Aftershock Hazard in Performance-Based Earthquake Engineering.", ICSAP12, Vancouver, B.C., Canada.
34. E. Jennings, J.W. van de Lindt, and L. Peek. "Multi-Objective Community-Level Seismic Retrofit Options for Resiliency using Engineering and Socioeconomic Variables.", 12th International Conference on Applications of Statistics and Probability in Civil Engineering, July 12-15, Vancouver, B.C., Canada.
35. J.W. van de Lindt et al. (2015). "Perspectives on Community Disaster Resilience.", Economics of Community Disaster Resilience, April 29-30, Reston, VA.
36. J.W. van de Lindt and S. Pei. (2015). "Status and Challenges for Seismic Design of Resilient Tall Wood Buildings in North America.", Structural Engineering Frontiers Conference, March 18, Yokohama, Japan.
37. Shiling Pei, J.W. van de Lindt, J. Daniel Dolan, James Ricles, Jeffrey Berman, Richard Sause, Hans-Erik Blomgren, Michael Willford, Marjan Popovski, and Douglas Rammer. (2015). "Seismic Resilient CLT Building for Pacific Northwest: Challenges and Opportunities.", Structures Congress 2015, Portland, OR.
38. van de Lindt, J.W., P. Bahmani, S. Pryor, G. Mochizuki, M. Gershfeld. (2014). "Understanding the Seismic Collapse Behavior of Soft-Story Light-Frame Wood Buildings through Full-Scale Shake Table Testing.", 5<sup>th</sup> Asia Conference on Earthquake Engineering, Taipei, Taiwan, October 16-18.

39. van de Lindt, J.W., Bahmani, P., Gershfeld, M., Mochizuki, G., Shao, X., Pryor, S.E., Pang, W., Symans, M.D., Tian, J., Ziaei, E., Jennings, E.N. and Rammer, D. (2014). "Seismic Risk Reduction for Soft-Story Woodframe Buildings: Test Results and Retrofit Recommendations from the NEES-Soft Project.", 2014 World Conference on Timber Engineering (WCTE 2014), Quebec City, Canada, August 2014.
40. Bahmani, P., J.W. van de Lindt et al. (2014). "Performance-Based Seismic Retrofit Methodology of Soft-Story Woodframe Buildings with Full-Scale Shake Table Test Validation.", 2014 World Conference on Timber Engineering (WCTE 2014), Quebec City, Canada, August 2014.
41. van de Lindt, J.W., P. Bahmani, A. Iqbal, G. Mochizuki, M. Gershfeld. (2014). "Observed Performance of Soft-Story Woodframe Building Retrofitted with CLT Raking Walls.", 2014 World Conference on Timber Engineering (WCTE 2014), Quebec City, Canada, August 2014.
42. van de Lindt, J.W., P. Bahmani, A. Iqbal, G. Mochizuki, M. Gershfeld. (2014). "Shake Table Tests of Soft-Story Woodframe Building Retrofitted with CLT Shear Walls.", 2014 Annual Meeting of the New Zealand Society of Earthquake Engineers, Auckland, NZ.
43. Gershfeld, M., et al, van de Lindt (2014). "Seismic Performance of Distributed Knee-Brace (DKB) System as a Retrofit for Soft-Story Woodframe Buildings.", 2014 World Conference on Timber Engineering (WCTE 2014), Quebec City, Canada, August 2014.
44. Tian, J., Symans, M.D., Gershfeld, M., Bahmani, P., van de Lindt, J. (2014). "Seismic Performance of a Full-Scale Soft-Story Woodframed Building with Energy Dissipation Retrofit.", Proc. of Tenth National Conf. on Earthquake Engineering (10NCEE), Anchorage, Alaska, July, 2014.
45. Shao, X., van de Lindt, J., Bahmani, P., Pang, W., Ziaei, E., Symans, M., Tian, J., Jennings, E. and Dao, T. (2014). "Real-Time Hybrid Simulation of a Stacked Wood Shear Wall with Viscous Damper.", Proc. of Tenth National Conf. on Earthquake Engineering (10NCEE), Anchorage, Alaska, July, 2014.
46. Pang, W., Ziaei, E., Shao, X., Jennings, E., van de Lindt, J., Gershfeld, M. and Symans, M. (2014). "A Three-Dimension Model for Slow Hybrid Testing of Retrofits for Soft-story Woodframe Buildings.", Proc. of Tenth National Conf. on Earthquake Engineering (10NCEE), Anchorage, Alaska, July, 2014.
47. van de Lindt, J.W., Bahmani, P., Jennings, E., Pang, W., Ziaei, E., Mochizuki, G., Gershfeld, M., Pryor, S., Shao, X., Symans, M.D., Tian, J. and Rammer, D. (2014). "Full-Scale Testing of Soft-Story Woodframe Buildings with Stiffness-Based Retrofits.", Proc. of Tenth National Conf. on Earthquake Engineering (10NCEE), Anchorage, Alaska, July, 2014.
48. Jennings, E.N., J.W. van de Lindt, and L. Peek. (2014). "Multi-Objective Optimization Approach for Decision-Making: Considering Engineering and Social Variables for Community Level Resiliency.", 3<sup>rd</sup> International Conference on Urban Disaster Reduction Sustainable Disaster Recovery: Addressing Risks and Uncertainty, September 28 – October 1.
49. Shao, X., J.W. van de Lindt, P. Bahmani, E.N. Jennings, W. Pang, E. Ziaei, M. Symans, J. Tian, and T.N. Dao. (2014). "Real-Time Hybrid Simulation of Wood Shear Wall Frame with Viscous Damper.", 2014 Structures Congress, April 3-5, Boston, MA.
50. van de Lindt, J.W., P. Bahmani, S.E. Pryor, G. Mochizuki, M. Gershfeld, W. Pang, E. Ziaei, E.N. Jennings, M. D. Symans, X. Shao, J. Tian, D. Rammer. (2014). "Overview of the NEES-Soft Experimental Program for Seismic Risk Reduction of Soft-Story Woodframe Buildings.", 2014 Structures Congress, April 3-5, Boston, MA.
51. Gershfeld, M., C. Chadwell, S. Gordon, J.W. van de Lindt, M. O. Amini, E.N. Jennings, W. Pang, and E. Ziaei. (2014). "Distributed Knee-Brace (DKB) System as a Complete or Supplemental Retrofit for Soft-Story Low-Rise Woodframe Buildings.", 2014 Structures Congress, April 3-5, Boston, MA.

52. Pang, W., E. Ziaei, X. Shao, J.W. van de Lindt. (2014). "Collapse Modeling and Hybrid Simulation of a Three-Story Light-Frame Wood Building.", 2014 Structures Congress, April 3-5, Boston, MA.
53. Pei, S., J.D. Dolan, V. Bordry, and J.W. van de Lindt. (2014). "Highrise Cross Laminated Timber Building: Design and Performance.", 2014 Structures Congress, April 3-5, Boston, MA.
54. M.O. Amini, J.W. van de Lindt, S. Pei, D. Rammer, P. Line, and M. Popovski. (2013). "Overview of a Project to Quantify Seismic Performance Factors for Cross Laminated Timber Buildings in the United States.", *2013 RILEM Conference: Materials and Joints in Timber Structures – Recent Advances of Technology*, Stuttgart, Germany, Oct 8-10. Presented by van de Lindt.
55. M. Popovski, S. Pei, J.W. van de Lindt, and E. Karacabeyli. (2013). "Force Modification Factors for CLT Structures for the National Building Code of Canada.", *2013 RILEM Conference: Materials and Joints in Timber Structures – Recent Advances of Technology*, Stuttgart, Germany, Oct 8-10.
56. van de Lindt, J.W., P. Bahmani, M. Gershfeld, G. Mochizuki, X. Shao, M. Symans, E. Ziaei, E. Jennings, S.E. Pryor, D. Rammer, J. Tian. (2013). "Full-Scale Dynamic Testing of Soft-Story Retrofitted and Un-Retrofitted Woodframe Buildings.", *SEAOC 2013 Annual Convention*, San Diego, CA. Presented by van de Lindt.
57. Gershfeld, M., C. Chadwell, J.W. van de Lindt, W. Pang, E. Ziaei, J. Ferguson, J. Au, J. Savage, and S. Gordon. (2013). "Distributed Knee-Brace (DKB) System as a Complete or Supplemental Retrofit for a Soft-Story Low-Rise Wood Frame Building.", *SEAOC 2013 Annual Convention*, San Diego, CA.
58. van de Lindt, J.W., N. Nazari, and Y. Li. (2013). "Effect of Seismic Aftershock Uncertainty on Mainshock Collapse Probabilities for Woodframe Buildings.", *ICOSSAR 2013*, July, New York, NY.
59. Song, R., Y. Li, and J.W. van de Lindt. (2013). "Influence of Earthquake Frequency Content on Collapse Risk.", *ICOSSAR 2013*, July, New York, NY.
60. van de Lindt, J.W., P. Bahmani, M. Gershfeld, G. Kandukuri, D. Rammer, S. Pei. (2013). "Seismic Retrofit of Soft-Story Woodframe Buildings using Cross Laminated Timber.", *ISEC-7: New Development in Structural Engineering and Construction*, June 18-23, Honolulu, HI.
61. Pei, S., J.W. van de Lindt, and H. Liu. (2013). "Mitigation of content damage for tall CLT buildings during earthquake events.", *ISEC-7: New Development in Structural Engineering and Construction*, June 18-23, Honolulu, HI.
62. van de Lindt, J.W., P. Bahmani, M. Gershfeld, X. Shao, W. Pang, M.D. Symans, and G. Mochizuki. (2013). "Performance-Based Seismic Retrofit of Soft-Story Light-Frame Wood Buildings.", *10<sup>th</sup> International Conference on Urban Earthquake Engineering*, March 1-2, Tokyo, Japan. Presented by van de Lindt.
63. Bahmani, P. and J.W. van de Lindt. (2013). "Direct Displacement Design of Vertically and Horizontally Irregular Woodframe Buildings.", *2013 Structures Congress*, May 2-4, Pittsburgh, PA.
64. Song, R., Y. Li, and J.W. van de Lindt. (2013). "Consideration of Mainshock-Aftershock Sequences into Performance-Based Seismic Engineering.", *2013 Structures Congress*, May 2-4, Pittsburgh, PA.
65. Jennings, E.N. and J.W. van de Lindt. (2013). "Low Cost Shape Memory Alloy Devices for Seismic Response Modification of Light-Frame Wood Buildings.", *2013 Structures Congress*, May 2-4, Pittsburgh, PA.
66. Griffith, C, X. Shao, J.W. van de Lindt, P. Bahmani, W. Pang, E. Ziaei. (2013). "Hybrid Simulation of a Wood Shear Wall Frame.", *2013 Structures Congress*, May 2-4, Pittsburgh, PA.

67. Pei, S., J.W. van de Lindt, and M. Popovski. (2013). "Seismic Design of Multi-Story Cross Laminated Timber Building for the North American Market: An Equivalent Lateral Force Approach.", *2013 Structures Congress*, May 2-4, Pittsburgh, PA.
68. van de Lindt, J.W. and M. O. Amini. (2012). "Preliminary Identification of a Rational Tornado Design Wind Speed for Residential Woodframe Structures.", *1<sup>st</sup> PLSE Conference*, Hong Kong, China, December 5-7, 2012. Presented by van de Lindt.
69. Bahmani, P. and J.W. van de Lindt. (2012). "Direct Displacement Design of Soft-Story Woodframe Buildings with Severe Torsion.", *1<sup>st</sup> PLSE Conference*, Hong Kong, China, December 5-7, 2012.
70. Gupta, R., K. Pfretzschner, H. Miller, D.O. Prevatt, J.W. van de Lindt, and P. Paevere. (2012). "Modeling for Load Paths in a Light-Frame Wood House.", *1<sup>st</sup> PLSE Conference*, Hong Kong, China, December 5-7, 2012.
71. Pei, S., J.W. van de Lindt, M. Popovski. (2012). "Numerical Modeling of Cross laminated timber Buildings for Performance-Based Seismic Design.", *1<sup>st</sup> PLSE Conference*, Hong Kong, China, December 5-7, 2012.
72. van de Lindt, J.W., M.D. Symans, W. Pang, X. Shao, and M. Gershfeld. (2012). "The NEES-Soft project: Seismic Risk Reduction for Soft-Story Woodframe Buildings.", *15<sup>th</sup> World Conference on Earthquake Engineering*, September 24-28, Lisbon, Portugal. Presented by van de Lindt.
73. Bahmani, P. and J.W. van de Lindt. (2012). "Performance-Based Seismic retrofit for Soft-Story Woodframe Buildings with Excessive Torsion.", *15<sup>th</sup> World Conference on Earthquake Engineering*, September 24-28, Lisbon, Portugal.
74. Jennings, E. and J.W. van de Lindt. (2012). "Performance of Woodframe Buildings with Shape Memory Alloy Dampers.", *15<sup>th</sup> World Conference on Earthquake Engineering*, September 24-28, Lisbon, Portugal.
75. Chadwell, C., M. Gershfeld, and J.W. van de Lindt. (2012). "Dissemination of Earthquake Related Research Activities through the use of Online Educational Modules.", *15<sup>th</sup> World Conference on Earthquake Engineering*, September 24-28, Lisbon, Portugal.
76. Pei, S., J.D. Dolan, J.W. van de Lindt, M. Popovski, and J. Ricles. (2012). "Hysteretic Damping in Cross laminated Timber Buildings to Improve Seismic Performance.", *World Conference on Timber Engineering*, July 16-19, Auckland, New Zealand.
77. van de Lindt, J.W., M.D. Symans, W. Pang, X. Shao, and M. Gershfeld. (2012). "Seismic Risk reduction for Soft-Story Woodframe Buildings: The NEES-Soft Project.", *World Conference on Timber Engineering*, July 16-19, Auckland, New Zealand. Presented by van de Lindt.
78. Pei, S., M. Popovski, and J.W. van de Lindt. (2012). "Seismic design of a multi-story Cross Laminated Timber building based on component level testing.", *World Conference on Timber Engineering*, July 16-19, Auckland, New Zealand.
79. van de Lindt, J.W., D.V. Rosowsky, W. Pang, and S. Pei. (2012). "Performance-Based Seismic Design of Mid-Rise Light-Frame Wood Buildings.", *World Conference on Timber Engineering*, July 16-19, Auckland, New Zealand. Presented by van de Lindt.
80. van de Lindt, J.W., S. Pei, D.O. Prevatt, T. Dao, R. Gupta, B. Coulbourne. (2012), "Proposal for a Dual Objective Tornado Design Philosophy.", *2012 Structures Congress*, Chicago, USA. Presented by van de Lindt.

81. van de Lindt, J.W., M.D. Symans, W. Pang, X. Shao, and M. Gershfeld. (2012). "Seismic Risk Mitigation for Soft-Story Woodframe Buildings in the United States.", *2012 Urban Conference on Earthquake Engineering*, March 6-8, Tokyo, Japan. Presented by van de Lindt.
82. Dao, T. and J.W. van de Lindt. (2012). "Seismic Design and Performance of a Novel Mid-Rise Cold-Formed Steel Frame System.", *2012 Structures Congress*, Chicago, USA.
83. van de Lindt, J.W. and P. Bahmani. (2012). "Numerical Modeling of Soft-Story Woodframe Retrofit Techniques for Design.", *2012 Structures Congress*, Chicago, USA.
84. Pei, S., J.W. van de Lindt, and N. Wehbe. (2012). "Collapse Limits for Woodframe Shear Walls: An Experimental Investigation.", *2012 Structures Congress*, Chicago, USA.
85. Prevatt, D., A. Graettinger, B. Coulbourne, B Haan, R. Gupta, S. Pei, J.W. van de Lindt. (2012). "Comparison of wind Loads on Structures in Context of Observed Damages in Hurricanes versus Tornadoes.", *2012 Structures Congress*, Chicago, USA.
86. van de Lindt, J.W. (2011). "The Role of Full-Scale testing in the Development of Performance-Based Seismic Design.", Keynote Paper, *Earthquake Analysis and Design of Structures*, December 1-3, Coimbatore, India. Presented by van de Lindt.
87. Dao, T.N. and J.W. van de Lindt. (2011). "Numerical Seismic Performance of a Five-Story Light-Gauge Cold Formed Steel Building.", *Earthquake Analysis and Design of Structures*, December 1-3, Coimbatore, India. Presented by van de Lindt.
88. van de Lindt, J.W. and P. Bahmani. (2011). "Seismic Performance of Soft-Story Woodframe Retrofit Options in the United States.", *Earthquake Analysis and Design of Structures*, December 1-3, Coimbatore, India. Presented by van de Lindt.
89. Rechan, R. K. and J.W. van de Lindt. (2011). "Seismic Performance Comparison of a High Content SDA Frame and Standard RC Frame.", *Earthquake Analysis and Design of Structures*, December 1-3, Coimbatore, India.
90. Vengala, J. and J.W. van de Lindt. (2011). "Seismic Performance of Buildings Constructed using Bamboo and its Composites.", *Earthquake Analysis and Design of Structures*, December 1-3, Coimbatore, India.
91. Pang, W., S. Shirazi, J.W. van de Lindt, and S. Pei. (2011). "Structural Collapse Analysis of Light-Frame Wood Walls under Earthquake Motions.", *8<sup>th</sup> International Conference on Urban Earthquake Engineering*, March 7-8, Tokyo, Japan.
92. Li, Y. and J.W. van de Lindt. (2011). "Multihazard Loss Estimation Framework for Residential Buildings.", *ICASPII*, August 1-5, Zurich, Switzerland. Presented by van de Lindt.
93. van de Lindt, J.W., S. Pei, and S.E. Pryor. (2011). "Construction and Experimental Seismic Performance of a Full-Scale Six-Story Light-frame wood Building.", *The Twelfth East-Asia-Pacific Conference on Structural Engineering and Construction*, Hong Kong, China, January 24-26. Presented by van de Lindt.
94. van de Lindt, J.W., S. Pryor, and S. Pei. (2010). "Design, Construction, and Shake Table Testing of a Full-Scale Seven-Story Apartment Building.", *4<sup>th</sup> International Conference on Structural Engineering and Mechanics*, Cape Town, South Africa, Sept 6 – Sept 9, 2010. Presented by van de Lindt.
95. van de Lindt, J.W., S. Pryor, and S. Pei. (2010). "Seismic Testing of a Full-Scale Mid-Rise Wood Apartment Building.", *14<sup>th</sup> European Conference on Earthquake Engineering*, Ohrid, Macedonia, Aug 30 – Sept 3, 2010. Presented by van de Lindt.

96. Pryor, S., J.W. van de Lindt, and S. Pei. (2010). "Experimental Seismic Response of a Full-Scale Seven-Story Mixed-Use Steel/Wood Apartment Building.", *14<sup>th</sup> European Conference on Earthquake Engineering*, Ohrid, Macedonia, Aug 30 – Sept 3, 2010. Presented by van de Lindt.
97. Pang, W., D. Rosowsky, J.W. van de Lindt, and S. Pei. (2010). "Simplified Performance-Based Seismic Design of NEESWood Capstone Building and Pre-Test Performance Evaluation.", *Proc 9<sup>th</sup> U.S. National and 10<sup>th</sup> Canadian Conference on Earthquake Engineering, Reaching Beyond Borders*, Toronto, Canada, July 25-29, 2010.
98. van de Lindt, J.W., D.V. Rosowsky, A. Filiatrault, M.D. Symans, and R.A. Davidson. (2010). "The NEESWood Project in Review.", *Proc 9<sup>th</sup> U.S. National and 10<sup>th</sup> Canadian Conference on Earthquake Engineering, Reaching Beyond Borders*, Toronto, Canada, July 25-29, 2010. Presented by van de Lindt.
99. Symans, M.D., J. Shinde, and J.W. van de Lindt. (2010). "Displacement-Based Design of Seismically Isolated Structures.", *Proc 9<sup>th</sup> U.S. National and 10<sup>th</sup> Canadian Conference on Earthquake Engineering, Reaching Beyond Borders*, Toronto, Canada, July 25-29, 2010.
100. van de Lindt, J.W., S. Pei, S.E. Pryor, and H. Shimizu. (2010). "Shake Table Testing of a Full-Scale Light-frame Wood Apartment Building.", *Proc 9<sup>th</sup> U.S. National and 10<sup>th</sup> Canadian Conference on Earthquake Engineering, Reaching Beyond Borders*, Toronto, Canada, July 25-29, 2010. Presented by van de Lindt.
101. Pang, W., D.V. Rosowsky, J.W. van de Lindt, and S. Pei. (2010). "Performance-Based Shear Wall Design of Six-Story NEESWood Capstone Building via Simplified Direct Displacement Design Procedure.", *2010 Structures Congress*, Orlando, FL., May 12-15.
102. van de Lindt, J.W., S. Pei, S.E. Pryor, H. Shimizu, and I. Nakamura. (2010). "Validation of the NEESWood PBSO Procedure on a Six-Story Condominium at Japan's E-Defense Shake Table.", *2010 Structures Congress*, Orlando, FL., May 12-15. Presented by van de Lindt.
103. van de Lindt, J.W., S. Pei, S.E. Pryor, H. Shimizu, K. Tachibana, H. Isoda, and I. Nakamura. (2010). "Experimental Seismic Response of a Full-Scale Six-Story Wood Apartment Building.", *11<sup>th</sup> World Conference on Timber Engineering*, Trentino, Italy, June 20-24.
104. Pang, W., D.V. Rosowsky, J.W. van de Lindt, and S. Pei. (2010). "Simplified Direct Displacement Design of Six-Story NEESWood capstone Building and Pretest Seismic Performance.", *11<sup>th</sup> World Conference on Timber Engineering*, Trentino, Italy, June 20-24.
105. Tachibana, K., H. Isoda, T. Okazaki, H. Shimizu, and J.W. van de Lindt. (2010). "Evaluation of the NEESWood Capstone Test Specimen using Japanese Building Codes.", *11<sup>th</sup> World Conference on Timber Engineering*, Trentino, Italy, June 20-24.
106. van de Lindt, J.W., S. Pei, S. E. Pryor, H. Shimizu, K. Tachibana, H. Isoda, and I. Nakamura. (2010). "Testing of a Full-Scale Apartment Building at E-Defense: Design and Performance.", *5<sup>th</sup> International Conference on Earthquake Engineering*, March, Tokyo, Japan. Presented by van de Lindt.
107. Pryor, S.E., J.W. van de Lindt, and S. Pei. (2010). "Testing of a Seven-Story Mixed use Apartment Building.", *5<sup>th</sup> International Conference on Earthquake Engineering*, March, Tokyo, Japan.
108. Prevatt, D.O., R. Gupta, and J.W. van de Lindt. (2010). "Performance-Based Wind Engineering and Structural Load Paths in Wood-Frame Residential Structures.", *2010 Structures Congress*, Orlando, FL., May 12-15.
109. Pang, W., D.V. Rosowsky, J.W. van de Lindt, and S. Pei. (2010). "Performance-Based Shear Wall Design of Six-Story NEESWood Capstone Building via Simplified Direct Displacement Design Procedure.", *2010 Structures Congress*, Orlando, FL., May 12-15.

110. van de Lindt, J.W., S. Pei, S.E. Pryor, H. Shimizu, and I. Nakamura. (2010). "Validation of the NEESWood PBS Procedure on a Six-Story Condominium at Japan's E-Defense Shake Table.", *2010 Structures Congress*, Orlando, FL., May 12-15. Presented by van de Lindt.
111. Gopu, V.J., R. Gupta, and J.W. van de Lindt. (2010). "Critical Research Needs Identified by the ASCE Workshop on Wood Engineering Challenges in the New Millennium.", *11<sup>th</sup> World Conference on Wood Engineering*, Trentino, Italy, June 2010.
112. Wilson, J.S., R. Gupta, J.W. van de Lindt, and D.T. Cox. (2010). "Behavior of Wood-Framed Residential Structure Under Surge Wave Loading.", *11<sup>th</sup> World Conference on Timber Engineering*, Trentino, Italy, June 2010.
113. van de Lindt, J.W., H. Liu, M.D. Symans, and J.K. Shinde. (2010). "Experimental and Numerical Investigation of a Practical Base Isolation System for Light-Frame Wood Buildings.", *5<sup>th</sup> World Conference on Structural Control and Monitoring*, July, 2010, Tokyo, Japan.
114. Pryor, S., J.W. van de Lindt, and S. Pei. (2010). "Experimental Seismic Response of a Seven-Story Mixed-Use Steel/Wood Apartment Building.", *11<sup>th</sup> World Conference on Wood Engineering*, Trentino, Italy, June 2010.
115. Martin, K.G., R. Gupta, D.O. Prevatt, P.L. Datin, J.W. van de Lindt. (2010). "Evaluation of System Effects and structural Load Paths in a Wood-Frames Structure.", *11<sup>th</sup> World Conference on Wood Engineering*, Trentino, Italy, June 2010.
116. van de Lindt, J.W., S.E. Pryor, and S. Pei. (2009). "Shake Table Testing of a Seven-Story Mixed-Use Condominium at Japan's E-Defense.", *2009 SEAOC Annual Convention*, San Diego, CA, September 23-26. Presented by van de Lindt.
117. Pei, S. J.W. van de Lindt, and H. Liu. (2009). "Optimization of Base Isolation for Woodframe Buildings Based on Performance.", *10<sup>th</sup> International Conference on Structural Safety and Reliability*, September 14-17, Osaka, Japan. Presented by van de Lindt.
118. Gupta, R., J. Wilson, J.W. van de Lindt, and R. Garcia (2009). "Tsunami Wave Loading on Residential Buildings.", *NEES 7<sup>th</sup> Annual Meeting*, June 22-25, Honolulu, HI.
119. Liu, H., J.W. van de Lindt, and S. Pryor. (2008). "Application of Performance-Based Design to Wood-Steel Hybrid Structures.", *14<sup>th</sup> World Conference on Earthquake Engineering*, October, Beijing, China. Presented by van de Lindt.
120. S. Pei and J.W. van de Lindt (2008). "Loss-based seismic design for light-frame wood structures.", *14<sup>th</sup> World Conference on Earthquake Engineering*, October, Beijing, China. Presented by van de Lindt.
121. van de Lindt, J.W. and S.K. Park. (2008). "Multi-record Incremental Dynamic Analysis of an IBC-Designed Six-Story Light-Frame Wood Building.", *14<sup>th</sup> World Conference on Earthquake Engineering*, October, Beijing, China. Presented by van de Lindt.
122. Riley, C.E., R.A. Atadero, J.W. van de Lindt, and P.R. Heyliger. (2008). "Sustainable structural materials with fly ash and recycled tire fibers.", *5<sup>th</sup> International Engineering and Construction Conference*, Los Angeles, CA, August 27-29.
123. van de Lindt, J.W., D.V. Rosowsky, M.D. Symans, A. Filiatrault, and R.A. Davidson. (2008). "Performance-Based Seismic Design of Mid-Rise Light-Frame Wood Buildings: An Overview of The NEESWood Project.", *10<sup>th</sup> World Conference on Timber Engineering*, Miyazaki, Japan. Presented by van de Lindt.



124. S. Pei and J.W. van de Lindt (2008). “Loss-based seismic design for woodframe structures: A fragility based procedure.”, *10<sup>th</sup> World Conference on Timber Engineering*, Miyazaki, Japan. Presented by van de Lindt.
125. Liu, H., J.W. van de Lindt, and M.D. Symans. (2008). “Performance-Based Design of Wood Buildings with Base Isolation.”, *10<sup>th</sup> World Conference on Timber Engineering*, Miyazaki, Japan.
126. Dao, T.N., J.W. van de Lindt, and B. Bienkiewicz. (2008). “Performance-Based Design of light-Frame Wood Buildings for Wind using Fragilities”, Proc *AWAS*, Jeju, S. Korea, May 2008. Presented by van de Lindt.
127. van de Lindt, J.W. (2008). “Natural Hazards and Wood: The Road to Performance.”, Invited position paper for the *2008 Research Needs in Wood Engineering Workshop*, Vancouver, Canada. Presented by van de Lindt.
128. van de Lindt, J.W. and M.A. Taggart. (2008). “Performance-Based Design of Residential Structures for Flood.”, *2008 Structures Congress*, Vancouver, Canada. Presented by van de Lindt.
129. van de Lindt, J.W. and T.N. Dao. (2008). “Performance-Based Design of Woodframe structures for Wind.”, *2008 Structures Congress*, Vancouver, Canada. Presented by van de Lindt.
130. W. Pang, D.V. Rosowsky, J.W. van de Lindt, H. Liu, and S. Pei (2008). “Tiered Approach to Performance-Based Seismic Design of Wood Frame Buildings.”, *2008 Structures Congress*, Vancouver, Canada.
131. Shinde, J.K., M.D. Symans, H. Liu, and J.W. van de Lindt. (2008). “Seismic Performance Assessment of Woodframed Structures with Energy Dissipation Systems.”, *2008. Structures Congress*, Vancouver, Canada.
132. van de Lindt, J.W., K. Fridley, and R. Gupta. (2007). “Summary of Wind Effects on Residential Structures During Hurricane Katrina.”, Proc., *Durability of Woodframe Structures – Learning from Natural Disasters*, Biloxi, MS, November, 2007. Presented by van de Lindt.
133. van de Lindt, J.W., R. Gupta, R. Garcia, and J. Wilson. (2007). “The Effect of Wind Driven Hurricane Waves on Wood Framed Buildings.”, Proc., *Durability of Woodframe Structures – Learning from Natural Disasters*, Biloxi, MS, November, 2007. Presented by van de Lindt.
134. Pei, S. and J.W. van de Lindt. (2007). “Seismic Design of Woodframe Residential Structures for Lifetime Loss Minimization: A Bayesian Approach.”, *ICASPI0*, Tokyo, Japan. Presented by van de Lindt.
135. van de Lindt, J.W. and H. Liu. (2007). “Probabilistic System Identification for Performance-Based Seismic Design.”, *ICASPI0*, Tokyo, Japan. Presented by van de Lindt.
136. van de Lindt, J.W. A. Filiatrault, M. D. Symans, D. V. Rosowsky, and R. A. Davidson. (2007). “Towards a Performance-Based Seismic Design Philosophy for Woodframe Construction.”, *9<sup>th</sup> Canadian Conference on Earthquake Engineering*, Ottawa, Ontario, June 27-29, 2007.
137. S. Pei and J.W. van de Lindt. (2007). “Long-Term Seismic Loss Evaluation for Woodframe Structures: A Performance-Based Procedure.”, *9<sup>th</sup> Canadian Conference on Earthquake Engineering*, Ottawa, Ontario, June 27-29, 2007.
138. Shinde, J., M.D. Symans, A. Filiatrault, and J.W. van de Lindt. (2007). “Application of Seismic Protection Systems to Woodframed Buildings: Full-Scale Testing and Field Implementation.”, *5<sup>th</sup> NEES Annual Meeting*, June 19-21, 2007, Snowbird, UT.

139. Filiatrault, A., J.W. van de Lindt, M. D. Symans, D.V. Rosowsky, and R.A. Davidson. (2007). "Full Scale Shake Table Testing of a Two-Story Woodframe Townhouse.", *2007 Structures Congress*, Long Beach, CA.
140. van de Lindt, J.W. (2007). "Can Woodframe Structures be Scaled for Shake Table Testing?", *2007 Structures Congress*, Long Beach, CA. Presented by van de Lindt.
141. Atadero, R.A., Goode, J.S. and J.W. van de Lindt. (2007). "Development of Lifetime Statistical Distributions of Wind Speed for Fatigue-Based Design.", *2007 Structures Congress*, Long Beach, CA.
142. van de Lindt, J.W. and H. Liu. (2006). "Correlation of Observed Damage and FEMA 356 Drift Limits: Results from a One-Story Woodframe House Shake Table Test.", *Proceedings of the 2006 Structures Congress*, St. Louis, MO. Presented by van de Lindt.
143. Goode, J.S. and J.W. van de Lindt. (2006). "Effect of Extreme Wind Gusts on Fatigue Life and Structural Reliability of High Mast Lighting Structural Supports.", *Proceedings of the 2006 Structures Congress*, St. Louis, MO.
144. Gupta, R. and J.W. van de Lindt. (2006). "Damage Observation and Prediction for Wood Shearwalls Subjected to Simulated Seattle Earthquakes.", *Proceedings of the 2006 Structures Congress*, St. Louis, MO. Presented by van de Lindt.
145. H. Liu and van de Lindt, J.W. (2006). "Shake Table Testing of a Performance-Based Seismic Designed Woodframe Structure.", *Proc of the 2006 World Conference on Timber Engineering*, Portland, OR.
146. W. Pang, Pei, S., J.W. van de Lindt, and D.V. Rosowsky. (2006). "Formulation of Evolutionary Parameter Hysteretic Models for Woodframe Shearwalls.", *Proc of the 2006 World Conference on Timber Engineering*, Portland, OR.
147. van de Lindt, J.W., D.V. Rosowsky, A. Filiatrault, M.D. Symans, R.A. Davidson. (2006). "The NEESWood Project: Progress on the Development of a Performance-Based Seismic Design Philosophy for Mid-Rise Woodframe Construction.", *Proc of the 2006 World Conference on Timber Engineering*, Portland, OR. Presented by van de Lindt.
148. Ellingwood, B.E., J.W. van de Lindt, D. Gromala, D.V. Rosowsky, R. Gupta, and S. Pryor. "Performance-Based Engineering for Light-Frame Wood Construction in the United States: Status and Challenges.", *Proc of the 2006 World Conference on Timber Engineering*, Portland, OR. Presented by van de Lindt.
149. Graettinger, A., J.W. van de Lindt, R. Gupta, T. Skaggs, S. Pryor, and K. Fridley. (2006). "Overview of Wind Damage to Woodframe Structures Caused by Hurricane Katrina.", *Proc of the 2006 ASCE/SEI Structures Congress*, St. Louis, MO. Presented by van de Lindt.
150. van de Lindt, J.W. and H. Liu. (2006). "Adequacy of FEMA 356 Drift Criteria in the Performance-based Seismic Design of Woodframe Structures.", *8<sup>th</sup> National Conference on Earthquake Engineering*, San Francisco, CA. Presented by van de Lindt.
151. van de Lindt, J.W., D.V. Rosowsky, S. Pei, and W.C. Pang. (2006). "Next Generation Hysteretic Models for Development of a Performance-Based Seismic Design Philosophy for Woodframe Construction.", *8<sup>th</sup> National Conference on Earthquake Engineering*, San Francisco, CA. Presented by van de Lindt.
152. van de Lindt, J.W. and J.M. Niedzwecki (2006). "A Slepian Model Approach to Seismic Reliability of Structures.", *8<sup>th</sup> National Conference on Earthquake Engineering*, San Francisco, CA.
153. van de Lindt, J.W. and D.V. Rosowsky. (2005). "Code-Based Reliability of Wood Shearwalls Subject to Natural Hazard Loads.", *ICOSSAR 05*, Rome, Italy.

154. van de Lindt, J.W., K. Cuellar, and L.B. Sandberg. (2005). "Steel Overhead Sign Support Structural Design: Meeting AASHTO 2001.", *84<sup>th</sup> Annual Meeting of the Transportation Research Board*. Presented by van de Lindt.
155. van de Lindt, J.W., T.M. Ahlborn, and S. Kethu. (2005). "An Alternate Approach to Approximate Deteriorated Steel Beam End Capacity.", *84<sup>th</sup> Annual Meeting of the Transportation Research Board*. Presented by van de Lindt.
156. van de Lindt, J.W., H.A. de Melo e Silva, J.N. Huart, and D.V. Rosowsky. (2004). "Reliability of Wood Shearwalls to Natural Hazard Loading.", *2004 Conference on Woodframe Housing Durability and Disaster Issues*, Las Vegas, NV. Presented by van de Lindt.
157. van de Lindt, J.W. and G. Fu. (2004). "Highway Bridge Design Load and Locality of Truck Loads.", Proceedings at the *IABSE Symposium on Metropolitan Habitats and Infrastructure*, Shanghai, China, September 22-24, 2004.
158. van de Lindt, J.W. and M.W. Drewek. (2004). "Performance-Based Design of Base Isolation Systems using Inverse-FORM.", Proceedings of the *9<sup>th</sup> ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability*, Albuquerque, New Mexico, July 2004. Presented by van de Lindt.
159. van de Lindt, J.W. (2004). "Reliability Analysis of Wood Shearwalls Subject to Lateral Loads.", *Forest Products Society 58<sup>th</sup> Annual Meeting*, June 27-30, Grand Rapids, MI, USA. Presented by van de Lindt.
160. van de Lindt, J.W. and H.A. de Melo e Silva. (2004). "Allowable Damage-Based Seismic Design of Wood Shearwalls.", Proc of the *8<sup>th</sup> World Conference on Timber Engineering*, Lahti, Finland, June 14-17, 2004. Presented by van de Lindt.
161. van de Lindt, J.W. and D.V. Rosowsky. (2004). "Reliability of Wood Shearwalls Subject to Wind and Earthquake Load.", Proc of the *8<sup>th</sup> World Conference on Timber Engineering*, Lahti, Finland, June 14-17, 2004. Presented by van de Lindt.
162. van de Lindt, J.W., T.M. Ahlborn, M.E. Lewis (2004). "Performance-Based Selection of Overhead Sign Support Structures.", Proc of the *2004 Structures Congress*, Nashville, TN. Presented by van de Lindt.
163. van de Lindt, J.W. (2004). "Wood Shearwall Design and Reliability Inherent in AF&PA/ASCE 16.", Proceedings of the *2004 Structures Congress*, Nashville, TN. Presented by van de Lindt.
164. van de Lindt, J.W. (2003). "Seismic Risk Based on Reliability of Structure Groups.", *Response of Structures to Extreme Loading*, Toronto, Canada, August 3-6, 2003, Presented by van de Lindt.
165. van de Lindt, J.W. and G. Goh (2003). "Modeling Earthquake Uncertainty by Coupling Load and Structure.", Proceedings of the *ASCE 2003 Structures Congress*, Seattle WA. Presented by van de Lindt.
166. van de Lindt, J.W., H. A. de Melo e Silva, and Y. Zhou (2003). "New Performance Criteria for Reliability of Wood Shear Walls.", Proceedings of the *ASCE 2003 Structures Congress*, Seattle WA. Presented by van de Lindt.
167. van de Lindt, J.W. and G. Goh (2003). "Earthquake Duration Effects on Very Low-Cycle Structural Damage Estimates.", Proceeding of the *2003 Pacific Conference on Earthquake Engineering*, Christchurch, New Zealand, February 13-15, 2003. Presented by van de Lindt.
168. van de Lindt, J.W., G. Fu, Y. Zhou, and R.M. Pablo Jr. (2003). "Structural Reliability of Bridges Designed Using HS25 in the State of Michigan.", Proceedings of the *82<sup>nd</sup> Annual Meeting of the Transportation Research Board*. Presented by van de Lindt.

169. van de Lindt, J.W. and M.A. Walz (2002). “Seismic Reliability Estimates Using a Wood Shear Wall Model.”, *Proceedings ASCE Structures Congress 2002*, Denver, CO, April 4-6, 2002. Presented by van de Lindt.
170. van de Lindt, J.W. and M.A. Walz (2002). “Earthquake Response Statistics of a Wood Shear Wall Using a Polynomial Hysteresis Model.”, *Proceedings of the 7<sup>th</sup> National Conference on Earthquake Engineering*, Boston, MA, July 21-25, 2002. Presented by van de Lindt.
171. van de Lindt, J.W. and J.M. Niedzwecki (2000). “Reliability Importance for Design Earthquake Identification.”, *Proc. of the 8<sup>th</sup> ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability*, Notre Dame, Indiana, July 2000. Presented by van de Lindt.
172. van de Lindt, J.W. and J.M. Niedzwecki. (2000). “A Time Variant Approach to Performance-Based Engineering.”, *Proc. ASCE Structures Congress 2000*, Philadelphia, PA, May 2000. Presented by van de Lindt.
173. Niedzwecki, J.M. and J.W. van de Lindt (1998). “Modeling the Extreme Behavior of Ocean Waves.”, Conference Record, 22<sup>nd</sup> Meeting of the U.S.-Japan Marine Facilities Panel (UJNR), October 25-November 4, 1998.
174. Niedzwecki, J.M. and J.W. van de Lindt (1998). “Parametric Characterization of Surface Wave Data.”, Proceedings *WAVE '98 ASCE*, Houston, TX, May.
175. Niedzwecki, J.M. and J.W. van de Lindt (1998). “Wave Runup on Spar Platforms.”, Proceedings *OMAE '98*, Lisbon, Portugal.
176. Niedzwecki, J.M. and J.W. van de Lindt (1998). “Extreme Response and Fatigue Estimates in Directional Seas.”, Proceedings *ISOPE '98*, May 1998. Montreal, Canada. Presented by van de Lindt.
177. Niedzwecki, J.M. and J.W. van de Lindt (1998). “Effect of Extremes on Fatigue Life Estimates of a Steel Caisson Platform.”, Proceedings *SEWC '98*, July 1998, San Francisco, CA. Presented by van de Lindt.
178. Niedzwecki, J.M. and J.W. van de Lindt (1997). “Sensitivity of TLP Tendon Reliability Estimates to Excitation by Multi-peaked Random Seas.”, Proceedings *ISOPE '97*, May, Honolulu, HI. Presented by van de Lindt.
179. van de Lindt, J.W. and J.M. Niedzwecki (1996). “Inflated Contour Approach for Deepwater Tendon Design.”, Proceedings 7<sup>th</sup> ASCE Specialty Conference on Probabilistic Mechanics and Structural Reliability, August, Worcester, MA. Presented by van de Lindt.
180. Niedzwecki, J.M., J.W. van de Lindt, and O.R. Rijken, (1995). “Behavior of Tendon Models in Random Seas.”, Proceedings 24<sup>th</sup> American Towing Tank Conference, November, College Station, TX. Presented by van de Lindt.

## Technical Reports

1. Sutley, E., M. Dillard, and J.W. van de Lindt, eds. (2021). “Community Resilience-Focused Technical Investigation of the 2016 Lumberton, North Carolina Flood: Community recovery One Year Later”, NIST SP 1230-2, NIST Special Publication 1230-2. <https://doi.org/10.6028/NIST.SP.1230-2>.
2. Kode, A., J.W. van de Lindt, and M. O. Amini. (2021). “Investigation of Cross Timber Bridge Decks as a Sustainable Solution for Repair of Deficient Rural Wood Bridges.”, Mountain Plains Consortium Report MPC-21-437.

3. van de Lindt, J.W., Rammer, D., Line, P., Amini, M., Pei, S., and Popovski, M. (2019). "Determination of Seismic Performance Factors for Cross-Laminated Timber Shear Walls Based on the FEMA P695 Methodology." USDA FPL & CSU, June 12, 2019.
4. McAllister, T., C. Clavin, B. Ellingwood, J.W. van de Lindt, D. Mizzen, and F. Lavelle. (2019). "Data, Information, and Tools Needed for Community Resilience Planning and Decision Making, National Institute of Standards and Technology", NIST SP 1240, September 2019, <https://doi.org/10.6028/NIST.SP.1240>.
5. van de Lindt, J.W., W.G. Peacock, and Judith Mitrani-Reiser, eds. (2018). "Community Resilience-Focused Technical Investigation of the 2016 Lumberton, North Carolina Flood Multi-disciplinary Approach", NIST SP 1230, Editor, October 2018, <https://doi.org/10.6028/NIST.SP.1230>.
6. van de Lindt, J.W., W.G. Peacock, and Judith Mitrani-Reiser, eds. (2018). "Community Resilience-Focused Technical Investigation of the 2016 Lumberton, North Carolina Flood Multi-disciplinary Approach", NIST SP 1230, Editor, October 2018, <https://doi.org/10.6028/NIST.SP.1230>.
7. van de Lindt, J.W. (2017). "Recommended Modeling Parameters and Acceptance Criteria for Nonlinear Analysis in Support of Seismic evaluation, Retrofit, and Design.", Applied Technology Council, <https://doi.org/10.6028/NIST.GCR.17-917-45>. Chapter 4.
8. ATC 112 (2013). "Technical Design Brief for Wood Diaphragm Design", NIST.
9. HUD Residential Structural Design Guide (2014), 2014 Update; w/ Bill Coulbourne, D.O. Prevatt, and J.W. van de Lindt
10. *Wind Driven Rain Effects on Buildings* (2014). Task Committee on Wind-Driven Rain Effects, American Society of Civil Engineers.
11. Li, Y., J.W. van de Lindt, and T.N. Dao. (2012). "US-Vietnam Workshop on Multiple Natural Hazards Assessment and Mitigation under the Impact of Climate Change.", December 9-12, 2012, Hanoi, Vietnam, Final Report to the *National Science Foundation*.
12. Pei, S. and J.W. van de Lindt. (2011). "Approximate Response Reduction Factor Calibration of Cross Laminated Timber Walls for Mid-rise Wood Buildings.", Final Report to FPInnovations, Vancouver, Canada.
13. 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.
14. van de Lindt, J.W. and P.R. Heyliger. (2011). "Structural Integrity of SDAR (Spray-Dryer-Ash-Rubber) Tiles for House Exteriors.", Final Report to the American Public Power Association.
15. Pei, S., J.W. van de Lindt, S.E. Pryor, H. Shimizu, H. Isoda, and D. Rammer. (2010). "Seismic Testing of a Full-Scale Mid-rise Building: The NEESWood Capstone Test.", NEESWood Project Report NW-04, 532pp.
16. Pei, S., J.W. van de Lindt, N. Luco, and S. Hartzell. (2010). "Comparison of Synthetic Ground motion Models using a Damage Potential Indicator.", Final Report to the U.S. Geological Survey, Reston, VA, 39pp.
17. FEMA P765, (2009). "Midwest Floods of 2008 in Iowa and Wisconsin.", Mitigation Assessment Team Report, Team member and co-author.

18. van de Lindt, J.W. (2010). "NEESWood Capstone Testing Report.", Ministry of Housing and Social Development, British Columbia, Canada.
19. van de Lindt, J.W. (2010). "The NEEWood Capstone Test at E-Defense.", Report to FPInnovations-Forintek Division, March 2010, 28 pp.
20. Pang, W., D. Rosowsky, J.W. van de Lindt, and S. Pei. (2009). "Simplified Direct Displacement Design of Six-Story NEESWood Capstone Building and Pre-Test Seismic Performance Assessment.", NEESWood Project Report NW-05, 137p.
21. Wood Engineering Challenges in the New Millennium - Critical Research Needs. Editor: Vijaya K.A. Gopu, Assistant Editors: Rakesh Gupta and John van de Lindt. Proceedings of the Pre-Congress Workshop Offered in Conjunction with the SEI / ASCE Structures Congress 2008, April 23-24, Vancouver, BC, Canada.
22. van de Lindt, J.W., A. Stone, and S. Chen. (2008). "Innovative Steel Design Alternatives for Bridges in Colorado: Simple Made Continuous.", 171pp, CDOT Research Report.
23. Atadero, R., J.W. van de Lindt, and J.S. Goode. (2008). "Lifetime Statistical Distributions for Fatigue Life Assessment of Structural Systems in Colorado.", CDOT Research Report.
24. van de Lindt, J.W., C. Choi, A. Carraro, and P.R. Heyliger. (2008). "Application of Fly Ash as a Wood Wall Insulator.", Report to the American Public Power Association, Washington D.C., 94p.
25. van de Lindt, J.W., A. Graettinger, R. Gupta, S. Pryor, T. Skaggs, and K. Fridley. (2005). "Damage Assessment of Residential Woodframe Structures in the Wake of Hurricane Katrina.", Report to the National Science Foundation.
26. van de Lindt, J.W. and J.S. Goode. (2006). "Development of a Reliability-based Design Procedure for High Mast Lighting Structural Supports in the State of Colorado.", *CDOT Research Report*.
27. van de Lindt, J.W. (2005). "The E-Proceedings of the 1<sup>st</sup> invitational Workshop on Performance-Based Design of Woodframe Structures.", July 30-31, 2005, Fort Collins, CO, USA.
28. van de Lindt, J.W., G. Fu, S. Pei, and R.M. Pablo Jr.. (2005). "LRFD Load Calibration for State of Michigan Trunkline Bridges.", *MDOT Research Report RC-1466*, 57pp
29. van de Lindt, J.W. and T.M. Ahlborn. (2004). "Development of Steel Beam End Deterioration Guidelines.", MDOT Research Report, August 2004, 60pp.
30. van de Lindt, J.W. and J.M. Niedzwecki. (2003). "Identification of the Ground Motion Parameters that Control Structural Damage using a Slepian Process Model." *Final Report to the U.S. Dept. of the Interior, U.S. Geological Survey*, December 2003, 22pp.
31. van de Lindt, J.W., K. Cuellar, and S. Vitton. (2003). "Comparison of Steel Overhead Sign Support Structures." *MDOT Research Report JN-56893*, November 2003, 102pp.
32. van de Lindt, J.W. (2003). "Development of a Composite Shear Wall for Resisting High Wind Loads.", *Report MTU-CEE-JWV-06* to the Michigan State Police Hazard Mitigation Grant Program, July 2003, 19pp.
33. Ahlborn, T.M., J.W. van de Lindt, and M.E. Lewis. (2003). "Optimization of Cost and Performance of Overhead Sign Support Structures.", *MDOT Research Report JN-56886*, October 2003, 150pp.

34. van de Lindt, J.W. and H. A. de Melo e Silva (2002). “Experimental Comparison of the Behavior of In-Flange Connectors for use in Pre-cast Concrete Double-Tee Systems.”, *Report MTU-CEE-JWV-05* to Progress Industries, Inc., 95pp.
35. van de Lindt, J.W., G. Fu, R.M. Pablo Jr., and Y. Zhou. (2002). “Investigation of the Adequacy of Current Bridge Design Loads in the State of Michigan.”, *MDOT Research Report RC-1413*, 60pp.
36. van de Lindt, J.W. (1999). “Time Variant Reliability of Systems Dominated by Load Uncertainty.”, Ph.D. Dissertation, Civil Engineering, Texas A&M University, May.
37. van de Lindt, J.W. (1995). “Inflated Contours for Extreme Response Prediction in Complex Structural Systems.”, M.S. Thesis, Civil Engineering, Texas A&M University, December.

### **Invited Keynotes and Significant Talks**

1. “Resilience Modeling using IN-CORE: The 2011 Joplin Tornado.”, Presented jointly with H. Cutler and J-S Lee, National Association of Insurance Commissioners, June 22, 2021.
2. “Fully Integrated Resilience Modeling of Coupled Physical-Social-Economic Systems.”, Keynote Address, Joint Japan-US Symposium on Assessment, Management, and Governance for Infrastructure Resilience (Virtually), April 29 (U.S.)/April 30 (Japan), 2021.
3. “Resilient Wood Buildings for Community Resilience to Natural Hazards.”, Simultaneous Keynotes to the Canadian Structural Engineering Conference & Canadian Materials Engineering Conference, May 27, 2021.
4. “Moving Resilience from Research to Practice.”, InteRaCt Webinar Series, Florida International University, May 14, 2021
5. “Measuring, Modeling, and Improving Community Resilience”., Johns Hopkins University Seminar, May 8, 2021.
6. “Resilience-Informed Guidance through Modeling and Interdisciplinary Field Studies.”, CII/Abbett Distinguished Lecture Series; Missouri Science & Technology University, April 19, 2021
7. “The Community Resilience Nexus: Buildings, Networks, and Socio-Economics”, University of Massachusetts – Amherst Seminar, April 16, 2021.
8. “Mass Timber for Resilient Buildings and Communities -Past, Present, and Future”. Starker Lecture Series, Oregon State University (Virtual), March 10, 2021.
9. “Understanding and Measuring the Role of Buildings in Community Resilience to Natural Hazards”., Northwestern University Seminar (Virtual), March 10, 2021.
10. “IN-CORE Risk-informed Decision Support Framework and Joplin Tornado Hindcast”, *Oregon State University Seminar*, virtual – April, 2020.
11. “Understanding and Modeling the Resilience Life Cycle of Communities: A Multi-Disciplinary Endeavour.”, *IALCCE*, Shanghai, virtual keynote – May 2020.
12. “Best Practices for Community Resilience”, *Partners in Energy*, virtual – June 11, 2020.

13. “Modeling and Improving Community Resilience: A Multi-Disciplinary Endeavour”, *Virtual Planning Workshop*, Iowa State University; virtual – June 25, 2020.
14. “A Multi-Disciplinary Approach to Improving Community Resilience to Natural Hazards”, *Webinar*, virtual – August 26, 2020.
15. “Consideration and Planning Strategies for Whole Building Testing at NHERI@UCSD Challenges and Opportunities”, *Joint Academia-Industry NHERI Workshop*, virtual – September, 2020.
16. “The Interdisciplinarity of Community Resilience and IN-CORE”, *Resilient Cities Workshop*, University of Michigan, virtual – October 9, 2020.
17. “CLT Shear Walls: What Do We Know & How Can We Use Them?”, *4<sup>th</sup> Annual International Mass Timber Conference*, Portland, OR, March 19 –21, 2019.
18. “Experimental and Numerical Study to Improve Damage and Loss Estimation due to Overland Wave and Surge Hazards on Near-Coast Structures”, *DHS Coastal Resilience Center of Excellence 4<sup>th</sup> annual meeting*, Chapel Hill, NC, March 27 –28, 2019.
19. “University at Buffalo presentation”, *University at Buffalo*, New York, April 4 – 5, 2019.
20. “ASCE Structures Congress”, *Orlando, FL*, April 24 – 27, 2019.
21. “Larimer County Presentation”, *Fort Collins, CO*, May 6, 2019.
22. “Seismically Resilient Buildings: A Necessary but not Sufficient Condition for Urban Resilience”, *1st JSCE-ASCE Joint Symposium on Infrastructure Resilience*, Kyoto University, Japan, May 22 – 23, 2019.
23. “A Community Resilience Modeling Environment: The Science and Approach Behind the December 2019 Open Source Release of IN-CORE”, *Hazus & Coastal Resilience Center Integration Workshop*, Washington, DC, June 10 – 11, 2019.
24. “The structure of the interconnected networked community resilience modeling environment”, *2<sup>nd</sup> International Conference on Natural Hazards & Infrastructure (ICONHIC 2019)*, Chania, Greece, June 23 – 26, 2019.
25. “NHERI Tall Wood Project and FEMA P695 Studies”, *Structural Engineers Association of California*, Los Angeles, CA, (Webinar) August 28, 2019.
26. “The Necessary but not Sufficient Condition of Structural Performance”, *Texas A&M University Seminar Speaker*, College Station, TX, October 24 – 25, 2019.
27. “Community Resilience”, *Grand Challenges in Earthquake Engineering*, USCD Main Campus, San Diego, CA, Dec 16 – 17, 2019.
28. “Community Level Damage and Recovery Hindcast: The 2011 Joplin Tornado”, *2018 Engineering Mechanics Institute Conference*, Cambridge, MA, May 29 – June 01, 2018.
29. “Resilience and Recovery: A Case Study of the 2016 Lumberton, NC Flood, Part 1”, *2018 Carolina’s Climate Resilience Conference*, Columbia, SC, October 29 – 31, 2018.
30. “Modeling Community Resilience: Update on the Center for Risk-Based Community Resilience Planning and the Computational Environment IN-CORE”, *17<sup>th</sup> U.S.-Japan-New Zealand Workshop on the Improvement of Structural Engineering and Resilience*, Queenstown, New Zealand, Nov 12 – 14, 2018.



31. "Toward Tall Resilient Wood Buildings: U.S. Whole-Building Shake Table Tests from 2006-2020", *The Eighth Kwang-Hua Forum on Innovations and Implementations in Earthquake Engineering Research*, Shanghai, China, Dec 13 – 16, 2018.
32. "Hurricane Matthew Recovery in Lumberton", 2017 North Carolina Emergency Management and East Carolina University Hurricane Conference, Greenville, NC, May 24, 2017.
33. "Large-Scale Testing at NHERI & OSU to Support Modeling and Fragility Development of Near-Coast Residential Buildings", NSF NHERI Coastal Hazards Engineering Workshop, Corvallis, OR, July 19, 2017.
34. "Overview of the Center of Excellence and the Lumberton Field Study", FEMA Joint Field Office, Durham, NC, September 7, 2017.
35. "Community Resilience Modeling: From Single Structures to Interconnected Socio-Physical Systems", Northwestern University Seminar, October 6, 2017.
36. "Community Resilience Planning", ASCE 2017 Convention, New Orleans, LA, October 8-11, 2017.
37. "The Center for Risk-Based Community Resilience Planning", The 2<sup>nd</sup> International Workshop on Modelling of Physical, Economic, and Social Systems for Resilience Assessment, Ispra, Italy, December 14-16, 2017.
38. The Centre of Excellence for Risk-Based Community Resilience Planning, 2<sup>nd</sup> International Workshop on Modeling of Physical Economic and Social Systems for Resilience Assessment, at the Joint Research Centre, Ispra, Italy, December 14-16, 2017.
39. *Grand Challenges in Earthquake Engineering*, NHERI@UC San Diego, 2<sup>nd</sup> Users Training Workshop, San Diego, CA, December 12-13, 2016.
40. International Workshop on Modeling of Physical, Economic, and Social Systems for Resilience Assessment, October 19-21, 2016, Reston, VA.
41. *Resilience, Science, and the Tornado Toll*, Texas State Collaborative: Strategies to Build Texas Resiliency, August 16, 2016, Austin, TX.
42. *Advancing Infrastructure Dependency and Interdependency Modeling*, Argonne National Laboratory, March 2016.
43. *The Science to Identify Attributes that Make Communities Disaster Resilient*, University of Oklahoma, Seminar, February 29, 2016, Norman, OK, w/ B. Ellingwood.
44. *The Evolution of Wood Building Design for Survival, Performance, and Resilience to Natural Hazards*, Structural Engineering Seminar, University of Illinois, Champaign, IL, May 4, 2015.
45. *Full-Scale Testing of Woodframe Buildings*, Dinner Meeting of the Structural Engineers Association of Southern Nevada, Sept 11, 2014.
46. *Test Results and Recommendations from NEES Soft-Story Woodframe Full-Scale Test*, Structural Engineers Association of California Annual Meeting, Indian Wells, CA, Sept 10, 2014.
47. *NEES-Soft Soft-Story Woodframe Testing*, Structural Engineers Association of Southern California, Long Beach, CA, March 21, 2014.

48. *The Development of CLT Seismic Design Factors*, Toward Taller Wood Buildings, Chicago, IL, November 6.
49. *Woodframe Buildings*, 2014. Workshop on Future Directions for the UC San Diego Large Outdoor Shake Table, September 5, UCSD, La Jolla, CA, USA.
50. *Seismic Risk Reduction for Soft-Story Woodframe Buildings in the United States*, 2014. Keynote at the New Zealand Society of Earthquake Engineers Annual Meeting, March 23, Auckland, New Zealand.
51. *Residential Wood-Frame and Soft Story Buildings*, 2014. Keynote presentation at the Northridge20 Symposium, January 17, Los Angeles, CA.
52. *Weak-Story Retrofit and Updates about NEES-Wood/NEES-Soft*, 2013 Light-Frame Engineering Symposium, Oct 21-22, Stockton, CA.
53. *Re-use of Experimental Earthquake Engineering Data: Three Illustrative Examples*, Joint Research Centre, SERIES Concluding Workshop, Ispra, Italy, May 30, 2013.
54. *Seismic Retrofit of Soft-Story Woodframe Buildings*, Dinner Presentation, Buffalo Association of Professional Geologists, Buffalo, NY, May 15, 2013.
55. *Establishing a Resilient Building Infrastructure through Performance-Based Seismic Design and Retrofit*, Plenary Session Keynote, 7<sup>th</sup> National Symposium on Earthquake Prevention and Mitigation Engineering, Chengdu, China, May 10, 2013.
56. *Full-Scale Testing for Design Method Validation*, Southwest Jiaotong University, Civil Engineering Faculty Seminar, Chengdu, China, May 12, 2013.
57. *Multi-Hazard Risk Reduction for the Woodframe Building Inventory*, Invited Seminar, Rensselaer Polytechnic Institute, February 19, 2013
58. *Incorporating Aftershocks in Risk Analysis*, 2012 Earthquake Engineering Research Institute Annual Meeting & National Earthquake Engineering Conference, April 12, 2012., Memphis, TN.
59. *Planning, Design, and Seismic Testing of a Six-Story Full-Scale Building* (2011), Evening Technical Lecture, Association of Consulting Engineers (India), Bangalore Centre, Bangalore, India, December 6, 2011.
60. *The Role of Full-Scale Testing in the Development of Performance-Based Seismic Design*, (2011), Keynote Address, Conference on Earthquake Analysis and Design of Structures, December 1, 2011 Coimbatore, India.
61. *Damage Study and Future Design Direction Following the Tuscaloosa Tornado of 2011*, (2011). International Code Council Tornado Symposium, September 20, Tuscaloosa, Alabama, USA.
62. *Seismic Performance of Woodframe Buildings: Worldwide Observations, Recent Research, and Future Needs*, Dinner Keynote Talk, Solid Wood and Composites Research Liaison Workshop, U.S. Forest Products Laboratory, September 7-8, 2011, Madison, WI, USA.
63. *Performance-Based Seismic Design of Mid-Rise Woodframe Buildings*, with Steven E. Pryor, NEES-EERI Joint Webinar, January 14, 2011, San Francisco, CA, USA.
64. *Earthquake Engineering Collaboration Across the Pacific* (2010). NSF Tokyo Office 50<sup>th</sup> Anniversary Symposium, Tokyo, Japan, October 6.

65. *Design, Testing, and Construction of Mid-Rise Light-Frame Wood Building* (2010), Woodworks Seminar, two invited seminars in Long Beach, two in South San Francisco, two in Rayleigh, N.C., 2 in Atlanta, GA, and a webinar, 2010-2011.
66. *Construction and Shake Table Testing of a 16,000 ft<sup>2</sup> Full Scale Building* (2010), Northern Colorado Branch of the American Society of Civil Engineering, Budweiser events Center, Loveland, CO, January 14, 2010.
67. *Shake Table Tests of a Full-Scale Seven-Story Apartment Building at Japan's E-Defense Facility* (2009), College of Engineering Alumni Breakfast, Colorado State University; Denver, CO, December 1, 2009.
68. *Full-Scale Shake Table Testing of a Seven-Story 16,000 sq ft Condominium: Planning, Construction, and Seismic Performance* (2009), Invited Semi-Annual Faculty Lecture, Colorado State University, Department of Civil and Environmental Engineering, November 12, 2009.
69. *Design, Construction and Testing of a Seven-Story Full-Scale Condominium* (2009), Seminar, The University of Alabama, Department of Civil, Construction, and Environmental Engineering, November 3, 2009.
70. *Design, Construction, and Testing of the Seven-Story NEESWood Building at Japans E-Defense* (2009), Invited presentation to the Building Experts Committee (BEC), a tri-lateral meeting between the US, Japan, and Canada, October 29, Tokyo, Japan.
71. *A New Design Paradigm Emerging One Natural Hazard at a Time* (2009). Invited seminar, University of Wisconsin-Madison, Department of Civil and Environmental Engineering, April 14.
72. *Industry Contributions to and from the NEESWood Project* (2008). Invited Plenary presentation at the 6<sup>th</sup> NEES Annual Meeting, Portland, OR.
73. *CAPSTONE Shake Table Tests of a Seven-Story Building in Japan* (2008). Invited Presentation to the Building Experts Committee (BEC), a tri-lateral meeting between the US, Japan, and Canada, October 21, Washington D.C.
74. *Overview of the NEESWood Project*, (2007). Presentation to the Building Seismic Safety Council – Wood technical Subcommittee (TS-7), Washington D.C., July 26, 2007.
75. *Testing of a Six-Story Woodframe Building at E-Defense in Japan*, (2007). Presentation to the Building Experts Committee (BEC), Quebec City, Quebec, Canada, September, 2007.
76. *The NEESWood Project: Research to Practice* (2007), 1<sup>st</sup> eBrownbag Webinar co-sponsored by EERI and NEESInc, April 4, 2007. Davis, CA. Co Presented with K. Cobeen, Cobeen & Assoc.
77. *Toward Performance -Based Design of Woodframe Structures Subjected to Natural*
78. *Hazards Loading* (2005), Structural Engineering and Structural Mechanics Seminar, University of Colorado at Boulder, October 19, 2005.
79. *U.S. Japan Collaboration for Wood Research*, 4<sup>th</sup> Planning Meeting for NEES/E-Defense Collaboration, Miki City, Japan, August 2-3, 2005.
80. *Performance of Woodframe Structures in the Mississippi Gulf Coast During Hurricane Katrina*, West Coast Lumber Inspection Bureau, Portland, OR, USA, April 21, 2006.
81. *Damage Assessment of Woodframe Residential Structures in the Wake of Hurricane Katrina*, ASCE Northern Colorado Branch Dinner Seminar, January 12, 2006.

82. In addition, Professor van de Lindt has had the opportunity to give numerous guest presentations in classes, smaller workshops, meetings, and dinners which are not listed for brevity.

### **Some Presentations Exclusive of Papers/Proceedings (Not comprehensive)**

1. “Experimental and Numerical Study to Improve Damage and Loss Estimation due to Overland Wave and Surge Hazards on Near-Coast Structures”, w/Dan Cox, DHS Coastal Resilience Center of Excellence 3<sup>rd</sup> Annual Meeting, Chapel Hill, NC, February 28 – March 1, 2018.
2. “Experimental and Numerical Study to Improve Damage and Loss Estimation due to Overland Wave and Surge Hazards on Near-Coast Structures”, w/ Dan Cox, Coastal Resilience Center Annual Meeting, Chapel Hill, NC, February 1-3, 2017.
3. “The Science of Community Resilience: Overview of the Center for Risk-Based Community Resilience Planning”, 3<sup>rd</sup> Global Summit of Research Institutes for Disaster Risk Reduction, Kyoto, Japan, March 19-21, 2017.
4. “Seismic Wood Research in the U.S.”, First NHERI/E-Defense Joint Meeting, Tokyo, Japan, July 13, 2017.
5. “Developing the Scientific Basis for Community Modeling and Risk-Informed Community Resilience Decision-Making”, ASCE Congress on Technical Advancement, Duluth, MN, September 13, 2017.
6. “Center of Excellence for Risk-Based Community Resilience Planning”, Part of Guidance and Tools for Community Resilience Planning – Implementation of the NIST Community Resilience Guide, Architectural Engineering Institute Conference 2017, Oklahoma City, OK, April 11-13, 2017.
7. “Update on Disaster and Failure Studies Work Toward Enhancing Readiness of Teams – Center for Risk Based Community Resilience Planning and Lumberton Update”, w/ Walt Peacock, National Construction Safety Team Advisory Committee Meeting, Gaithersburg, MD, September 28, 2017.
8. “Cross Laminated Timber Seismic Performance Factor Development in the U.S.”, National Research Council, Canada, Committee Meeting, December 4, 2017.
9. van de Lindt, J.W., M.O. Amini, D. Rammer, S. Pei, P. Line, and M. Popovski. (2014). “Progress in Developing Seismic Performance Factors for Cross Laminated Timber in the United States via the FEMA P695 Methodology.”, 2014 Structures Congress, April 3-5, Boston, MA.
10. van de Lindt, J.W. and M. Omar Amini. (2014). “Performance Expectations and Codifying Efforts in the U.S.”, *Workshop on Engineering Resilient Tall CLT Buildings in Seismic Regions*, January 24, Seattle, WA.
11. van de Lindt, J.W. (2013). “Fragility Development at Different Scales: From Component to Community.” *Workshop on Risk and Uncertainty* at the University of Liverpool, November 7 – 8, 2013.
12. van de Lindt, John W. (2013). Prior to four-person panel participation at the 2013 Structures Congress in “Tornado-Resilient Communities Reducing Losses to Buildings.”
13. van de Lindt, J.W. (2012). US-Vietnam Multi-Hazard Mitigation Workshop in a Changing Climate, Hanoi, Vietnam, December 8-11, 2012.

14. van de Lindt, J.W., S. Pei, S.E. Pryor, and D. Rammer. (2011). "Seismic Design and Performance of a Six-Story Wood-frame Building.", *65<sup>th</sup> International Convention of the Forest Products Society*, Portland, OR, June 19-21.
15. Dao, T.N. and J.W. van de Lindt. (2011). "The development of Performance-Based Wind Engineering for Residential Structures: From Concept to Application.", *65<sup>th</sup> International Convention of the Forest Products Society*, Portland, OR, June 19-21.
16. van de Lindt, J.W. (2011). "An Overview of the Devastating Tuscaloosa Tornado of 2011: Questioning the Paradigm.", *Quake Summit 2011*, June 8-11, Buffalo, NY.
17. van de Lindt, J.W. and X. Shao. (2011). "Seismic Risk Reduction for Soft-Story Woodframe Buildings: The NEES-Soft Project.", *Quake Summit 2011*, June 8-11, Buffalo, NY.
18. van de Lindt, J.W., D. Cox, R. Gupta, and F. A. (2011). "Tsunami Risk Reduction for Coastal Buildings through Development of Tsunami Collapse Fragilities.", *Quake Summit 2011*, June 8-11, Buffalo, NY.

**Conference Sessions Organized, Chaired, Proposal Review Panels, and other Activities**

1. Scientific Committee, ICASP 2019, Seoul Korea
2. ICONHIC 2019, Chania, Greece
3. Scientific Committee, WCTE 2018, Seoul Korea
4. Network Independent Advising Council, Natural Hazards Engineering Research Institute, San Antonio, TX, June 2018
5. Chair, Parallel Session 2E- Eighth Kwang-Hua Forum, Shanghai, China 2018
6. Topic Chair, Technical program Committee, 11<sup>th</sup> U.S. National Conference on Earthquake Engineering, Los Angeles CA.
7. Scientific Committee, ICOSSAR, 2017 Vienna, Austria.
8. Reviewer for Canada Research Chair renewals and New Chairs, 2017
9. Technical Program Committee, 11<sup>th</sup> U.S. National Conference on Earthquake Engineering, to be held June 2018, Los Angeles, CA.
10. J. van de Lindt has organized, co-organized, and chaired numbers workshop, meetings, and sessions over the last several years; these are not listed here.
11. International Advisory Board and session chair, Seismic design and behavior of innovative timber systems and Modeling-materials, 2016 World Conference on Timber Engineering (WCTE 2016), August 24-25, 2016. Vienna, Austria.
12. International Scientific Committee, Second International Conference on Performance-based and Life-cycle Engineering (PLSE 2015), Brisbane, Australia.
13. Reviewer for University of Wisconsin Milwaukee Research Foundation Catalyst Program, 2014.
14. Session organizer and upcoming chair, Retrofit of Soft-Story Woodframe: Testing Analysis and Policy, U.S. National Conference on Earthquake Engineering, Anchorage, Alaska.

15. Session organizer chair, Experimental and Modeling Studies on Woodframe Buildings, 2014 Structures Congress, April 3-5, Boston, MA.
16. Session Co-Chair, SERIES Concluding Workshop, European Commission, May, 2013, Ispra, Italy.
17. International Advisory Board, RILEM Conference: Materials and Joints in Timber Structures – Recent Advances and Technology, To be held October 8-10, 2013, Stuttgart, Germany.
18. Co-Organizer, US-Vietnam Multi-Hazard Mitigation Workshop in a Changing Climate, Hanoi, Vietnam, December 8-11, 2012.
19. Mini Symposium Organizer and Chair; “Performance-Based Design of Wood Structures”, PLSE, Hong Kong, December 5-7, 2012.
20. Session Chair; “Lateral Load Systems”; 2012 World Conference on Timber Engineering, Auckland, NZ; July 15-19.
21. Reviewer for U.S. National Research Council Research Associateship Programs, National Academies, 2012-Present (ongoing).
22. Proposal reviewer for the Natural Sciences and Engineering Research Council of Canada
23. Session organizer and Chair for 2012 Structures Congress “Seismic Risk Reduction for Soft-Story Woodframe Buildings.”, Chicago.
24. Invited Participant (representing NEES Users), NSF Budget and Operations Subcommittee Meeting on Re-competition of Large Facilities, Nov 2-3, 2011.
25. Conference Co-Chair on behalf of the University of Alabama, *Earthquake Analysis and Design of Structures*, December 1-3, 2011, Coimbatore, India.
26. Co-organizer (with Yue Li), Multiple Hazards Risk Assessment and Mitigation, Mini Symposium, ICASP 11, Zurich.
27. Workshop Organizer and Chair, First Invitational workshop on Improving Seismic Modeling of Woodframe Buildings, Feb 2-3, 2011, Tuscaloosa AL. 15 participants with travels funds provided by USDA-FPL.
28. Session Organizer and Chair, Special Session: Changes in the Seismic Design of Wood Buildings to Reach New Heights, 9<sup>th</sup> U.S. National and 10<sup>th</sup> Canadian Conference on Earthquake Engineering, Reaching Beyond Borders, Toronto, Canada, July 25-29, 2010.
29. Session organizer, QuakeSummit2010, San Francisco, CA, Wood and Masonry Buildings, Joint NEES-PEER Annual Meeting.
30. Session organizer and chair, Wood Buildings Session, US-Canada Joint Conference on Earthquake Engineering, 2010, Toronto, Canada.
31. Track organizer and session chair. “Seismic Design of Wood Buildings.” *2008 World Conference on Earthquake Engineering*, Beijing, China.
32. Developed presentations and presented at AF&PA sponsored workshop on Nonlinear Time History Analysis of Light-frame Wood Structures”. Software developed by Professor van de Lindt with one of his students, Dr. S. Pei, was highlighted for a half day with a hands-on tutorial.

33. Technical Program Chair, 5<sup>th</sup> Annual Network for Earthquake Engineering Meeting, June, 2006, Snowbird, Utah.
34. Coordinating Board Member and Breakout Session Facilitator “Wood Research Needs in the New Millennium”. Breakout Session: Natural Hazards. *Structures Congress*, 2008.
35. Session organizer. “Natural-Hazards Induced Damage to Woodframe Structures.” *2006 Structures Congress and Exposition*, St. Louis, MO, May.
36. Session organizer. “Performance-Based Design of Woodframe Structures: Perspectives from Around the Globe.” World Conf on Timber Engineering, Portland, OR, August 1-6.
37. Session chair and organizer. “Re-evaluation of LRFD for Engineered Wood Products: Keeping Pace with Changes in ASCE 7.” *2004 Structures Congress and Exposition*, Nashville, TN, May 18-24.
38. Organizer and Host of the 1<sup>st</sup> Invitational Conference on Performance-Based design of Wood Structures, Fort Collins, CO, July 28-29, 2005.
39. Session chair and session organizer. “Performance-Based Reliability of Wood Shear Walls.” *2003 Structures Congress and Exposition*, Seattle, WA, May 29-June 1, 2003.
40. Session chair and session organizer, “Behavior of Light-Frame Wood Wall Systems.” *2002 ASCE/SEI Structures Congress and Exposition*, Denver, CO April 4-6, 2002.
41. Session co-chair, 8<sup>th</sup> *ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability*, Notre Dame, IN, July 24-26, 2000.
42. National Science Foundation Review Panel Member, *Investigation of the Turkey and Taiwan Earthquakes*, 2000.
43. National Science Foundation Reviewer for *Development of the NEES Consortium*, 2001.
44. National Science Reviewer for *CAREER Development Panel*, Jan 2004.
45. National Science Reviewer for *Major Research Instrumentation Panel*, Jan 2005.
46. Reviewer for McGraw-Hill Companies, *Fundamentals of Structural Analysis, 2<sup>nd</sup> Ed., Chapter 2: Design Loads*, K.M. Leet and C-M Uang.
47. Reviewer for Jon Wiley and Sons, *Structural Analysis: Using Classical and Matrix Methods, 3rd Edition*, J.K. Nelson, Jr. and J.C. McCormac.
48. Reviewer for Jon Wiley and Sons, *Fundamentals of Structural Analysis, 2nd Edition*, H.H. West and L.F. Geschwindner, Jan 2004.
49. Proposal reviewer for the Southwest Research Institute, Florida Sea Grant.
50. Professor van de Lindt’s research projects have been highlighted through a number of mainstream dissemination mechanisms including NOVA, Discovery Channel, NPR, Fox News (national), and a large number of TV and Newspapers following earthquakes and hurricanes, e.g. Katrina.

### **Funded Research Projects**

Professor van de Lindt has received approximately \$50M in funding over the last 20 years with the majority coming from NSF and NIST. He has led a number of NSF projects including three with project teams of 8-15

people, served as Co-PI on four NSF projects, led projects funded by the USDA, Forest Products Lab, US Geological Survey, Colorado DOT, Michigan DOT, and Industry from the US and Canada. He is currently the PI on the \$40M Center of Excellence funded by NIST with 30 investigators and approximately 35 students and post doctoral scholars.

### **Current Projects**

1. NIST Center of Excellence: Center for Risk-Based Community Resilience Planning, 02/01/20 – 01/31/2025, Department of Commerce- National Institute of Standards and Technology, \$20,000,000 (PI and Co-Director – van de Lindt, Co-PI and Past Co-Director – Ellingwood, and Co-Director – Jamie B. Kruse; 30 additional investigators across 13 additional universities)
2. Experimental and Numerical Study to Improve Damage and Loss Estimation due to Overland Wave and Surge Hazards on Near-Coast Structures, 01/01/16 – 06/30/21, Subaward with UNC at Chapel Hill, \$107,312. (~\$700,000 over 7 years total) (PI – van de Lindt).
3. Collaborative Research: Development and Validation of A Resilience-based Seismic Design Methodology for Tall Wood, 09/01/16 – 08/31/2021, NSF- National Science Foundation, \$180,000 (PI – van de Lindt).
4. Stacked 2-story Conventional Shear Wall Test, 01/30/18 – 05/30/2020, USDA-USFS Forest Research, \$90,000. (PI – van de Lindt)
5. Post Doctoral Fellow at FPL, 10/01/18 – 09/30/2021, U.S. Endowment for Forestry and Communities, Domestic Non-Profit, \$167,000. (PI – van de Lindt)
6. Collaborative Research: EAGER CoPe: Coastal Community Resilience Bonds to Enable Coupled Socio-Physical Recovery, 10/01/19 – 09/30/2021, NSF- National Science Foundation, \$100,000. PI – van de Lindt)
7. Cooperative Research to Enable Mass Timber Multi-Family Housing Technologies, 09/20/19 – 09/20/2021, US Department of Housing and Urban Development, \$400,000. (PI – van de Lindt)
8. Joint Documentation of Research Efforts under Decision Frameworks for Multi-Hazard Resilient and Sustainable Buildings, 05/01/20 – 09/30/21, Subaward with Virginia Polytechnic Institute, \$50,000.00. (PI – van de Lindt)

### **Completed Projects**

9. NIST Center of Excellence: Center for Risk-Based Community Resilience Planning, 2/1/15-07/31/2020, Department of Commerce - National Institute of Standards and Technology, \$20,000,000 (PI and Co-Director – van de Lindt, Co-PI and Co-Director – Ellingwood; 26 additional investigators across 13 universities)
10. CRISP Type 2: Collaborative Research: Scalable Decision Model to Achieve Local and Regional Resilience of Interdependent Critical Infrastructure Systems and Communities, 10/1/16-9/30/2020, \$760,000 (Co-PI – van de Lindt, PI – Ellingwood). Collaborative grant with Texas A&M University (PI: Peacock) and University of Illinois (PI: Gardoni).
11. Cycling Test of Cold-Formed Steel Panels, 02/01/19 – 08/15/19, Prescient Co Inc., \$98,500 (PI – Mahmoud, Co-PI – van de Lindt)



12. Quantifying the Performance of Cripple Walls and Sill Anchorage in Single Family Wood-frame Buildings, 05/22/17 – 08/31/19, University of California, Berkeley, \$60,000 (PI – van de Lindt)
13. Development of Seismic Performance Factors for Cross Laminated Timber: Phase III, 5/1/14-12/31/15, USDA-FPL, \$130,000 (PI – van de Lindt, Co-PI – D. Rammer)
14. Development of Seismic Performance Factors for CLT: Phase II, 3/6/13-8/31/14, USDA-FPL, \$70,000 (PI – van de Lindt, Co-PI – D. Rammer)
15. A Risk-Informed Decision Framework to Achieve Resilient and Sustainable Buildings that Meet Community Objectives, NSF-RSB, 2/17/15-2/16/19, \$1,280,000 (PI – van de Lindt; 6 Co-PI's)
16. Collaborative Research: Fundamental Mechanics and Conditional Probabilities for Prediction of Hurricane Surge and Wave Forces, 6/1/13-5/31/16, NSF-CMMI, \$140,000 (PI-van de Lindt); Collaborator: D. Cox, OSU, with separate funding.
17. Utilization of CLT as Soft Story Retrofit within NEES-Soft Shake Table Test, 6/1/13-8/31/14, USDA-FPL, \$40,000 (PI – van de Lindt, Co-PI – D. Rammer).
18. Quantitative Uncertainty Modeling for Performance Based Earthquake Engineering, 8/1/13-7/30/15, \$307,532 (Co-PI – van de Lindt, PI – Pei, CSM), NSF-CMMI.
19. Quantifying Sustainability Metrics for Truckline Bridges in the Mountain Plains, 11/1/12-11/30/15, MPC, \$61,000 (PI – van de Lindt; Co-PI – B. Senior, CSU).
20. Development of Seismic Response Factors for Cross Laminated Timber – Phase I, 9/15/2012-9/14/2013, USDA-FPL, \$84,000 (PI – van de Lindt, CO-PI's – D. Rammer, FPL; Shiling Pei, CSM)
21. Integration of Aftershock Seismic Hazard Into Performance-Based Earthquake Engineering using Publicly Available NEEShub Data. 10/1/10-9/30/13, NSF, \$280,000 (Co-PI – van de Lindt, PI – Li, MTU)
22. Seismic Risk Assessment for Trunkline Bridges in the I-25/I-70 Corridor of the Mountain Plains Region of the U.S., \$31,000, Mountain Plains Consortium (PI – van de Lindt)
23. NEES-Soft: Seismic Risk Reduction for Soft Story Woodframe Building, 9/30/10-9/29/14, NSF, \$1,399,250 (PI – van de Lindt, Co-PI's – Symans, Shao, Pang, and Gershfeld). NSF Graduate Fellowship Supplement, GOALI Supplement and Standard Supplement included.
24. Collaborative Research: NEESR Planning: Massive Timber Structural Systems for Seismically Resilient Tall Buildings, NSF-NEES, \$72,000 (PI-van de Lindt); Collaborators: S. Pei, CSM; J. D. Dolan, WSU; J. Berman, UW; J. Ricles and R. Sause, Lehigh; with separate funding.
25. NEESWood: Development of a Performance-Based Seismic Design Philosophy for Mid-Rise Woodframe Construction, 8/15/05-8/14/10, NSF, \$1,420,000 (PI-van de Lindt, Co-PI's – Rosowsky, Filiatrault, Symans, and Davidson).
26. Seismic Design and Behavior of Cross Laminated Timber Buildings 8/1/11-7/31/12, USDA-FPL, \$177,500 (PI – van de Lindt; Co-PI – Pei, SDSU; D. Rammer, FPL)
27. The Prescient Companies: Phase I, 8/1/10-9/30/11, \$150,000 (PI – van de Lindt).
28. Reliability-Based Analysis and Design of Slender Long-Span Bridges, NSF, \$243,000, (Co-PI – van de Lindt; PI – Chen, CSU).

29. Feasibility Study for Highway Traffic Noise Barriers from a Spray Dryer Ash and Used Rubber Composite, Colorado Department of Public Health and the Environment, \$91,374, (PI – van de Lindt; Co-PI – Heyliger)
30. Rapid Load Rating of Short Rural Bridges, \$31,000 (PI – van de Lindt)
31. Innovative and Economical Steel Bridge Design Alternatives for Colorado: Hybrid Girders, Double-Composites, Epoxy FRP covers plates, and External Post Tensioning (Phase-II), CDOT, \$70,000 (PI – van de Lindt)
32. Financial Support for Six-Story Wood Building Tests in Japan, \$75,000(CAD), Government of British Columbia (PI – van de Lindt).
33. One time financial support for existing NEESWood Project above.
34. Financial Support for NEESWood Tests in Japan, \$50,000 (CAD), FPInnovations (PI – van de Lindt)
35. Understanding the Behavior of Mid-Rise Light-Frame Wood Buildings, \$273,000, U.S. Forest Products Lab (PI's – van de Lindt and Rammer, FPL)
36. International Travel Support for US Researchers to attend E-Defense Testing in Japan, NSF-CMMI, \$25,000 (PI-van de Lindt)
37. Performance-Based Wind Engineering: Interaction of Hurricanes with Residential Buildings, 6/01/08-5/30/10, NSF, \$100,000 (Co-PI – van de Lindt, PI – Prevatt, Florida, Co-PI – Gupta, OSU)
38. Developing Damage Potential Indicators through Coupling Intrinsic Mode Functions and Structural Characteristics for Improvement in Synthetic Ground Motion Generation: Collaborative Research with Colorado State University and USGS, 12/1/08-11/30-09, Department of the Interior – USGS, \$60,000 (PI – van de Lindt).
39. NEESR II: Mitigating the risk of coastal infrastructure through understanding tsunami-structure interaction and modeling, 10/108-9/30/11, \$375,000 (Co-PI – van de Lindt, PI – Cox, OSU, Co-PI's – Gupta, OSU; Aquiniga, TAMU-Kingsville)
40. Major Research Instrumentation: Acquisition of an Infrastructure for Real-Time Testing of Wind Effects on Structures, 10/01/05-9/30/09, NSF, \$590,000 (Co-PI – van de Lindt, PI- Bienkiewicz).
41. NEESR Payload: Wave Loading on Residential Structures with Earthquake and Hurricane Applications, NSF, \$75,000 (PI: van de Lindt; Co-PI: Gupta, OSU)
42. Innovative applications of Fly Ash: Roof Tiles, Colorado Commission on Higher Education, \$113,000 (Co PI – van de Lindt; PI - Heyliger; Co-PI - Atadero).
43. Time History Analysis of Mid-Rise Light-Frame Wood Buildings in British Columbia, FPInnovations, \$26,000, 11/1/08-3/31/09 (PI – van de Lindt)
44. Enabling Innovative Plate Girder Bridges: Simple Spans Made Continuous, MPC (UTC), \$35,000 (PI – van de Lindt).
45. Statistical Characterization of Wind Distributions for fatigue Assessment of Structural Supports in Colorado, CDOT, \$40,100.
46. Investigation of the use of Fly Ash for Light-frame Wood wall Insulation, APPA, \$30,000 (PI: van de Lindt; CO PI's: Cararro, Heyliger).

47. Innovative Steel Design Alternatives for Bridges in Colorado, CDOT, 4/15/06-3/30/09, \$50,000 (PI: van de Lindt; Co-PI: Chen).
48. Collection of Perishable Data on Woodframe Residential Structures in the Wake of Hurricane Katrina, 10/01/05-09/30/06, *NSF*, \$15,000 (PI – van de Lindt, Co-PI – Graettinger, University of Alabama)
49. LRFD Load Calibration for State of Michigan Trunkline Bridges – Phase III, *Michigan Department of Transportation*, 10/21/05 – 12/21/05, \$19,000 (Co-PI –van de Lindt, PI- Fu, Wayne State Univ.).
50. Development of a Reliability-Based Design Procedure for High mast Lighting Structural Supports in Colorado, 10/01/04-9/30/05, *Colorado Department of Transportation*, \$44,500 (PI – van de Lindt)
51. LRFD Load Calibration for State of Michigan Trunkline Bridges, *Michigan Department of Transportation*, 09/15/03 – 4/30/05, \$135,000 (PI's – van de Lindt and Fu, Wayne State Univ.).
52. Planning of the NEES/E-Defense International Collaboration, *National Science Foundation*, 10/15/03—1/31/05, \$50,000 (PI – van de Lindt, Co-PI – Rosowsky, Oregon State Univ.).
53. Development of Steel Beam End Deterioration Guidelines, *Michigan Department of Transportation*, 03/01/03-07/31/04, \$68,000 (PI – van de Lindt).
54. Re-Evaluation of LRFD for Engineered Wood Products: Keeping Pace with Changes in ASCE 7, 06/01 – 12/03, Travel funds only, (ASCE/SEI Special Project carried out by the Committee on the Reliability –Based Design of Wood Structures.)
55. Investigation of the Adequacy of Current Bridge Design Loading in the State of Michigan, *Michigan Department of Transportation*, 02/14/01-04/05/02, \$45,000 (PI's – van de Lindt and Fu, Wayne State Univ.).
56. Identification of the Ground Motion Parameters that Control Structural Damage using a Slepian Process Model, *United States Geological Survey*, 05/15/02-08/31/03, \$60,000 (PI – van de Lindt; Co-PI – Niedzwecki, Texas A&M Univ.).
57. Development of a Composite Shear Wall for Resisting High Wind Loads, *Federal Emergency Management Agency Hazard Mitigation Grant Program through the Michigan State Police*, 11/15/01-05/15/03, \$38,000 (PI – van de Lindt).
58. Comparison of Steel Overhead Sign Support Structures, *Michigan Department of Transportation*, 03/19/03-08/31/03, \$54,000 (PI – van de Lindt).
59. Optimization of Cost and Performance of Overhead Sign Structures, *Michigan Department of Transportation*, 05/11/02-08/10/03, \$70,000 (Co-PI – van de Lindt; PI – Ahlborn).
60. Experimental Comparison of the Behavior of In-Flange Connectors for use in Precast Concrete Double-Tee Systems, *Progress Industries Inc.*, 08/01/02-12/20/02, \$9,000 (PI – van de Lindt).

### **Research Consulting**

**Applied Technology Council** Project 114

**Applied Technology Council** Seismic Design of Wood Floor Diaphragms, ATC 112.

**HUD** Update of the Residential Construction Guide (Chapter 2 and 6), Sub from Coulbourne Consulting, 2013-2014

**FEMA** Mitigation Assessment Team, Midwest Floods of 2008, Iowa and Wisconsin. Site visits and co-authorship of FEMA P765.

**FPInnovations-Forintek Division** Document review and development, 2009; 2011

**FEMA** The 2011 Southeastern Tornadoes, in-kind.

### **Served as Paper Reviewer**

(Approximately 25 papers/year)

*ASCE Journal of Structural Engineering*  
*ASCE Journal of Bridge Engineering*  
*ASCE Practice Periodical on Structural Design and Construction*  
*ASCE Journal of Performance of Constructed Facilities*  
*Journal of Infrastructure Systems*  
*Structural Safety*  
*Engineering Structures*  
*Natural Hazards Review*  
*Open Civil Engineering Journal*  
*Earthquake Engineering and Structural Dynamics*  
*Earthquake Spectra*  
*Probabilistic Engineering Mechanics*  
*Ain Shams Engineering Journal*  
*Journal of Earthquake Engineering*  
*European Journal of Environmental and Civil Engineering*  
*Bulletin of Earthquake Engineering*  
*Bulletin of the New Zealand Society for Earthquake Engineering*  
*Journal of Wind Engineering and Industrial Aerodynamics*  
*Forest Products Journal*

### **Other Activities**

Organizing and chairing approximately 8 to 10 meetings per year including semi-annual meetings of the NIST Center of Excellence; a collaboration of 12 universities. Participating on a number of scientific committees for conferences and organizations not listed.