

Curriculum Vitae

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

February, 2024

Harold H. Short Endowed Chair Professor
Co-Director, Center for Risk-Based Community Resilience Planning
Editor-in-Chief, Journal of Structural Engineering
Department of Civil and Environmental Engineering
Colorado State University
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Web page 2: <http://resilience.colostate.edu>

Executive Summary

Activity Category	Number/Amount
Journal papers published or in-press	246
Conference papers (in proceedings)	192
Research Projects	67
Post-Doctoral/Visiting Scientists Supervised	20
Ph.D. Students Completed	17
M.S. Students Completed	26
Total Research Funding	\$52,664,668
As PI	\$49,185,150
As Co-PI	\$3,469,518
Keynotes/Significant Talks	104
Technical Reports	38
Funding from the following federal agencies	NSF, NIST, USGS, DHS, FEMA, USDA, NOAA, HUD
Notable projects and other experience	-PI and Co-Director, \$40M, 10-year 14-university NIST-funded Center of Excellence -NSF MRI & MsRI Experience -Institutional Review Board (IRB) Pre-Approval & Multi-University Authorization Agreement experience -International collaborations in Asia, Europe, and the Americas -Chief Editor, <i>Journal of Structural Engineering</i> -Elected Fellow, American Society of Civil Engineers

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 also previously served on the faculty at Michigan Technological University to begin his academic career. 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 22 years he has successfully procured/led federal, state, and industry sponsored projects exceeding \$50M. As a result of these projects he has published approximately 400 technical publications including more than 220 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 22 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 Latino and/or women.

Personal Information

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
Research Administration
Academic Administration

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/Vice Chair, 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-Present)
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

Resilient Cities and Structures
Member, Editorial Board, 2022-Present

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 (20)

Dr. Jace Furley (2023 – Present)

Education: Ph.D. from Colorado State University
Subjects: Seismic design of CLT panels and wood structures
Support: Harold Short

Dr. Wanting (Lisa) Wang (2023 – Present)

Education: Ph.D. from Colorado State University
Subjects: Structural engineering, Natural hazards, Fragility assessment, Community resilience
Support: NIST

Dr. Omar Sediek (2022 – Present)

Education: Ph.D. from University of Michigan
Subjects: Earthquake engineering, community resilience
Support: NIST

Dr. Omer Bilginer (2022 – 2023)

Education: Pursuing a Ph.D. in Turkey
Subjects: Performance and Modeling of Cellular Towers to Earthquake
Support: Fellowship from Turkey

Dr. Omar M. Nofal (2021 - 2022)

Education: Ph.D. from Colorado State University

Subjects: Resilience of communities to flooding and wind hazards, and recovery modeling
Support: DHS, NSF, NIST
Current Position: Assistant Professor, Florida International University

Dr. Tu Nguyen (2021 - 2022)

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
Current Position: Assistant Professor, University of Nebraska- Lincoln

Mr. Alberto Basaglia (2017 – 2018)

Education: Pursuing a Ph.D. in Italy
Subjects: Seismic Resilience of Hospitals
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
Current Position: Assistant Professor, University of Alabama

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
Current Position: Assistant Professor, University of South Alabama

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: PBSO 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 (17)

Jace Furley, Ph.D., March 2023

Dissertation Title : Resilience-Based Seismic Design Based on Time-to-Functionality for Tall Mass Timber Buildings
Support: NSF, and Misc.

Wanting (Lisa) Wang, Ph.D., October 2022

Dissertation Title : Physical-Socio-Economic Systems Integration for Community Resilience-informed Decision-making and Policy Selection
Support : DOC – NIST- CoE

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

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: Research Engineer, Industry

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 (4)

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: Multi-disciplinary Community Resilience in a Changing Climate
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

Mohamad Habibnia

Dissertation subject: Semi-automated Resilience Modeling for Communities using AI
Support: National Science Foundation/FIU
Exp Grad: TBD

Current M.S. Students (2)

Catherine Hood

Thesis subject : Equitable Buyouts for Flood Hazard
Support : DHS Prime - UNC Chapel Hill
Exp Grad : Summer 2024

Prashanna Mishra

Thesis subject : Understanding Collapse of Mass Timber Buildings through Full-Scale Experiments

Support : NSF

Exp Grad : TBD

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, Spring 2023 – 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, Spring 2020, Spring 2022, Spring 2024 – 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 2nd 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. Wang, W. (Lisa), J.W. van de Lindt, B. Johnston, P. S. Crawford, G. Yan, T. Dao, T. Do, K. Skakel, M. Harati, T. Nguyen, C. Robinson, and A. Barbosa. (2024). "Application of Multi-disciplinary

Community Resilience Modeling to Reduce Disaster Risk: Building Back Better.” *Journal of Performance of Constructed Facilities* (in press).

2. Motlagh, F., S. Hamideh, M. Gallagher, G. Yan and J. W. van de Lindt. (2024). “Bonds for Disaster Resilience: A Review of Literature and Practice.” (in press).
3. Roohi, M., S. Ghasemi, O. Sedeik, H. Jeon, J.W. van de Lindt, and H. Cutler. (2024). “Seismic Multi-Hazard Multi-Disciplinary Resilience Modeling of Interdependent Infrastructure Systems for Developing Mitigation Policies and Recovery Planning: Application to Salt Lake City, Utah.” (in press).
4. Enderami, A., E. Sutley, J. Helgeson, J.W. van de Lindt, L. Duenas-Osorio, and M. Watson. (2024). “Measuring Post-Disaster Accessibility to Essential Services: Availability, Adequacy, Acceptability, and Proximity Dimensions.” *Journal of Infrastructure Preservation and Resilience* (in press).
5. Makhoul, N., M. Roohi, J. W. van de Lindt, H Sousa, L. O. Santos, S. Argyroudis, A. Barbosa, B. Derras, P. Gardoni, J. S. Lee, S. Mitoulis, B. Moffett, C. Navarro, J. Padgett, R. Rincon, F. Schmidt, N. Shaban, S. Stefanidou, E. Tabaldi, Y. Xenidis, and S. Zmigrodzki. (2024). “Seismic resilience modelling of an interdependent built environment for integrating SHM and emerging technologies in decision-making.” *Structural Engineering International* Vol 34 (1) pp. 19-33.
6. Ho, T. X., T. N. Dao, J. W. van de Lindt, and S. Pryor. (2024). “Performance-Based Design of Posttensioned Cross-Laminated Timber and Light-Frame Wood Shear Wall Hybrid System.” *Journal of Structural Engineering*, Vol 150 (4), doi.org/10.1061/JSENDH.STENG-12778.
7. Nofal, O.M., N. Rosenheim, A. Enderami, H. Jeon, T. Lu, J.W. van de Lindt, E. Sutley, H. Cutler, S. Kameshwar, J. Patil, X. Zhou, L. Duenas-Osorio, E. J. Cha and C. Wang. (2024). “Community-level post-hazard functionality methodology for buildings exposed to floods.” *Computer-Aided Civil and Infrastructure Engineering* doi.org/10.1111/mice.13135.
8. Nofal, O.M., A. Kooshan, J. E. Padgett, J. W. van de Lindt, N. Rosenheim, Y. M. Darestani, A. Enderami, E. J. Sutley, S. Hamideh and L. Duenas-Osorio. (2023). “Multi-hazard socio-physical resilience assessment of hurricane-induced hazards on coastal communities.” *Resilient Cities and Structures*, Vol 2 (2). Pp 67 – 81, doi.org/10.1016/j.rcns.2023.07.003.
9. van de Lindt, J. W., J. Kruse, D. T. Cox, P. Gardoni, J. S. Lee, J. Padgett, T. P. McAllister, A. Barbosa, H. Cutler, S. Van Zandt, N. Rosenheim, C. Navarro, E. J. Sutley, and S. Hamideh. (2023). “The interdependent networked community resilience modeling environment (IN-CORE).” *Resilient Cities and Structures*, Vol 2 (2). Pp 57 – 66, doi.org/10.1016/j.rcns.2023.07.004.
10. Hayes, B.N., M. Koliou and J.W. van de Lindt. (2023). “Seismic Behavior of Balloon Frame Cross-Laminated Timber Connections.” *Journal of Structural Engineering*, Vol 149 (9), doi.org/10.1061/JSENDH.STENG-11984.
11. Wang, Wanting (Lisa), J.W. van de Lindt, M. Watson, and Y. Xiao. (2023). “Commercial Building Recovery Methodology for us in Community Resilience Modeling.” *Natural Hazards Review*, Vol 24 (4), doi.org/10.1061/NHREFO.NHENG-1728.
12. Dong, Y., Y. Guo, and J.W. van de Lindt. (2023). “Fragility Modeling of Urban Building Envelopes Subjected to Windborne Debris Hazard.” *Journal of Structural Engineering*, Vol 149 (5), doi.org/10.1061/JSENDH.STENG-11732.
13. Rodrigues, L.G., A.R. Barbosa, A. Sinha, C. Higgins, S. Breneman, R.B. Zimmerman, S. Pei, J.W. van de Lindt, J.W. Berman, J.M. Branco, and L.C. Neves. (2023). “Analytical and Numerical Models for Wind and Seismic Design and Assessment of Mass Timber Diaphragms.” *Journal of Structural Engineering*, Vol 150 (2), doi.org/10.1061/JSENDH.STENG-12265.

14. Bilginer, O., H. Karaman and J.W. van de Lindt. (2023). "Development of seismic fragilities for a base station steel lattice cellular tower." *Heliyon*, Vol 9 (10), doi.org/10.1016/j.heliyon.2023.e20582.
15. Zhao, Y., G. Yan, J. Dang, J.W. van de Lindt, J. Y. Lee, D. S. LaDue, and C. A. Shivers-Williams. (2023). "Understanding Tornadoic Wind Effects on Manufactured or Mobile Homes through High-Fidelity CFD Simulations." *Journal of Structural Engineering*, Vol 149 (12), doi.org/10.1061/JSENDH.STENG-12325.
16. Cifelli, R., V. Chandrasekar, L. Herdman, D.D. Turner, A.B. White, T.I. Alcott, M. Anderson, P. Barnard, S.K. Biswas, M. Boucher, J. Bytheway, H. Chen, H. Cutler, J.M. English, L. Erikson, F. Junyent, D.J. Gottas, J. Jaspere, L.E. Johnson, J. Krebs, J. van de Lindt, J. Kim, M. Leon, Y. Ma, M. Marquis, W. Moninger, G. Pratt, C. Rahakrihnan. M. Shields, J. Spaulding, B. Tehranirad, and R. Webb. (2022). "Advanced Quantitative Precipitation Information: Improving Monitoring and Forecasts of Precipitation, Streamflow, and Coastal Flooding in the San Francisco Bay Area." *Bulletin of the American Meteorological Society (BAMS)*, doi.org/10.1175/BAMS-D-21-0121.1.
17. Nofal, O.M., J.W. van de Lindt, and A. Zakzouk. (2022). "BIM-GIS integration approach for high-fidelity wind hazard modeling at the community-level." *Frontier Built Environment. Sec. Wind Engineering and Science*, doi.org/10.3389/fbuil.2022.915209.
18. Wang, W.(L), J.W. van de Lindt, B. Hartman, H. Cutler, J. Kruse, T.P. McAllister, and S. Hamideh. (2022). "Determination of Individual Building Performance Targets to Achieve Community-Level Social and Economic Resilience Metrics." *Journal of Structural Engineering*, Vol 148 (5), doi.org/10.1061/(ASCE)ST.1943-541X.0003338.
19. Gupta, H.S., Nofal, O.M., González, A.D., Nicholson, C.D., van de Lindt, J.W. (2022). "Optimal Selection of Short- and Long-Term Mitigation Strategies for Buildings within Communities under Flooding Hazard." *Sustainability* 2022, 14, 9812, doi.org/10.3390/su14169812.
20. Basaglia, A., E. Spacone, J.W. van de Lindt, and T. Kirsch. (2022). "A Discrete-Event Simulation Model of Hospital Patient Flow Following Major Earthquakes." *International Journal of Disaster Risk Reduction*, Vol 71, doi.org/10.1016/j.ijdr.2022.102825.
21. Wang, W(L) and J.W. van de Lindt. (2022). "Quantifying the Effect of Improved School and Residential Building Codes for Tornadoes in Community Resilience." *Resilient Cities and Structures*, Vol 1 (1), doi.org/10.1016/j.rcns.2022.04.001.
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23. Honerkamp, R., G. Yan and J.W. van de Lindt (2022), "Revealing bluff-body aerodynamics on low-rise buildings under tornadoic winds using "numerical" laboratory tornado simulator." *ASCE Journal of Structural Engineering*, Vol 148 (3), doi.org/10.1061/(ASCE)ST.1943-541X.003283.
24. Nofal, O.M., J.W. van de Lindt, H. Cutler, M. Shields, and K. Crofton. (2021). "Modeling the Impact of Building-Level Flood Mitigation Measures Made Possible by Early Flood Warnings on Community-Level Flood Loss Reduction." *Buildings* 2021 11(10), 475, doi.org/10.3390/buildings11100475.
25. 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*, Vol 23 (1), doi.org/10.1061/(ASCE)NH.1527-6996.0000520.

26. 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*, Vol 8 (2), doi.org/10.1061/AJRUA6.0001219.
27. Nofal, O.M., J.W. van de Lindt, T.Q. Do, G. Yan, S. Hamideh, D. T Cox, J.C. Dietrich. (2021). "Methodology for Regional Multi-Hazard Hurricane Damage and Risk Assessment." *Journal of Structural Engineering*, Vol 147 (11), doi.org/10.1061/(ASCE)ST.1943-541X.003144.
28. 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.
29. 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.
30. 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*, Vol 147 (12), doi.org/10.1061/(ASCE)ST.1943-541X.003195.
31. 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.
32. 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*, Vol 27 (4), doi.org/10.1061/(ASCE)IS.1943-555X.0000642.
33. 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*, Vol 27 (3), doi.org/10.1061/(ASCE)AE.1943-5568.0000473.
34. 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.
35. 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.
36. 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.
37. 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.

38. 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.
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40. Roohi, Milad; van de Lindt, John; Rosenheim, Nathanael; Hu, Yuchen; Cutler, Harvey. (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.
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43. 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.
44. 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.
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54. 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.
55. 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.
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Refereed Journal Publications Currently in Review/Submitted

1. Harati, M. and J.W. van de Lindt. (2024). "A Multiprocessing Distributed Framework to Generate Earthquake-Tsunami Fragility Surfaces for Community Resilience Modeling." *Engineering Structures*, In Review.
2. Sediek, O.A., Roohi, M., and van de Lindt, J. W. (2023) "A Decision Support Methodology for Seismic Design Requirements of Buildings to Achieve Community-Level Resilience Metrics" Submitted for Publication in *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering* (under review).
3. Nofal, O. M., N. Rosenheim, S. Kameshwar, J. Patil, X Zhou, J. W. van de Lindt, L. Duenas-Osorio, E. J. Cha, A. Enderami, E. Sutley, H. Cutler, T. Lu, C. Wang and H. Jeon. (2023). "Coupled-Community-Level Population-Building-Infrastructure Post-Hazard Functionality Assessment for Buildings: (1) Application." Submitted.
4. Nofal, O.M., A. Kooshan, J. E. Padgett, J. W. van de Lindt, N. Rosenheim, Y. M. Darestani, A. Enderami, E. J. Sutley, S. Hamideh and L. Duenas-Osorio. (2023). "Multi-hazard socio-physical risk and recovery assessment of hurricane-induced hazards on coastal communities." Submitted.
5. Sediek, O.A., M. Roohi, and J. W. van de Lindt. (2023) "A Decision Support Methodology for Seismic Design Requirements of Buildings to Achieve Community-Level Resilience Metrics." Submitted for Publication in *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering* (under review).
6. Wang, W., J. W. van de Lindt, E. Sutley, and S. Hamideh. (2024). "Interdependent Recovery Methodology for Residential Buildings and Household Housing in Community Resilience Modeling." *ASCE OPEN: Multidisciplinary Journal of Civil Engineering* (under review).
7. Sediek, O.A., M. Roohi, and J. W. van de Lindt. (2024). "A Genetic Algorithm Framework for Seismic Retrofit of Building Portfolios to Enhance Community Resilience." (in preparation)
8. Ghasemi, S., O. A. Sediek, M. Roohi, and J. W. van de Lindt. (2024). "The Role of Data Availability in Seismic Resilience Assessment of Communities." (in preparation)
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Non-refereed Journals, Other Articles, Survey Instruments, and Data Sets

1. Davis, C., ed. (2023). "Infrastructure System Resilience: An Engineering Framework for Assessment, Management, and Governance." ASCE E-book. <https://doi.org/10.1061/9780784485088>.
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3. van de Lindt, J. W., M. Koliou, P. Bahmani. (2023). Getting Cross-Laminated Timber into U.S. Design Codes: A Must for Affordable and Sustainable Multifamily Housing." *Cityscape*, Vol 25 (1), www.jstor.org/stable/48725033.

4. Wang, C., M. G. R. Faes, M. Beer, E. Zio, J. van de Lindt. (2023). "Special Section on Community Resilience to Disruptive Events: Models and Analyses, Lessons Learned and Case Studies." *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems Part B: Mechanical Engineering*. Vol 9 (3), doi.org/10.1155/1.4062982.
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Book Chapters

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9. ATC 112 (2013). "Technical Design Brief for Wood Diaphragm Design." NIST.
10. HUD Residential Structural Design Guide (2014), 2014 Update; w/ Bill Coulbourne, D.O. Prevatt, and J.W. van de Lindt
11. *Wind Driven Rain Effects on Buildings* (2014). Task Committee on Wind-Driven Rain Effects, American Society of Civil Engineers.
12. 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*.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. FEMA P765, (2009). "Midwest Floods of 2008 in Iowa and Wisconsin." Mitigation Assessment Team Report, Team member and co-author.
19. van de Lindt, J.W. (2010). "NEESWood Capstone Testing Report." Ministry of Housing and Social Development, British Columbia, Canada.
20. van de Lindt, J.W. (2010). "The NEESWood Capstone Test at E-Defense." Report to FPInnovations-Forintek Division, March 2010, 28 pp.
21. 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.

22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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*.
28. van de Lindt, J.W. (2005). "The E-Proceedings of the 1st invitational Workshop on Performance-Based Design of Woodframe Structures." July 30-31, 2005, Fort Collins, CO, USA.
29. 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
30. van de Lindt, J.W. and T.M. Ahlborn. (2004). "Development of Steel Beam End Deterioration Guidelines." MDOT Research Report, August 2004, 60pp.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.

38. 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. *Measuring the Resilience of a Community Based on Four Areas of Community Stability: An Interdisciplinary Approach to Measurement Science*, John W. van de Lindt, Elsevier Online Webinar (~4000 attendees). December 14, 2023.
2. *Calibrating Retrofit Levels to Achieve City-Level Physical, Social, and Economic Resilience Goals*, John W. van de Lindt, Keynote, NFEES, Tianjin, China, Dec 2-3, 2023.
3. *Modeling and Measuring the Resilience of Cities using Digital Twins*. The 4th International Conference on Transportation Infrastructure and Sustainable Development (TISDIC-2023), Danang, Vietnam, August 25, 2023.
4. *Multidisciplinary Community Resilience Modeling: Planning for Adaptation to Climate Change*, John W. van de Lindt, Seminar, Hong Kong Polytechnic Institute, Hong Kong, August 2023.
5. *Achieving Community Resilience through Multidisciplinary City-scale Modelling*. The 6th Huixiam International Forum on Earthquake Engineering for Young Researchers, The Hong Kong Polytechnic University, Hong Kong, China, August 7, 2023.
6. *Building an Open-Source Multidisciplinary Computational Platform for City-Scale Analysis: People, Places, and our Future*. Future of the Building Industry Workshop (FoBI) Smart Resilience Communities, The Durham School, Omaha, Nebraska, June 1 – 2, 2023.
7. *Digital Twinning of Communities for Disaster Risk Reduction: Climate Adaptive Solutions*; John W. van de Lindt, GADRI Global Summit Keynote, Kyoto, March 15 – 17, 2023.
8. *Buyouts, elevating, and flood-proofing: Understanding social equity of flood interventions for existing residential structures*, DHS Coastal Resilience Center of Excellence 8th annual meeting, Chapel Hill, NC, March 8 - 9, 2023.
9. *The Interdependent Networked Community Resilience Modeling Environment (IN-CORE): Next Gen Resilience Analysis*, Presentation to FEMA; John W. van de Lindt, Jamie Kruse, Jong Lee, February 2023.
10. *The Interdependent Networked Community Resilience Modeling Environment (IN-CORE): Next Gen Resilience Analysis*, John W. van de Lindt, Marsh and McLennan Companies, January 2023.
11. *Modeling & Measuring Community Resilience using IN-CORE: An Overview of the Underlying Science and Technology*, URISA, John W. van de Lindt and Jong Lee, January 2023.
12. *Progress and Challenges in Modeling of Whole Communities to Improve Disaster Resilience*, John W. van de Lindt, Keynote 1st China-US Future Wind Engineering Talent Summit, Beijing China, December 17, 2022 (Virtual).
13. *Several presentations-* Applied Technology Council – NIST Center of Excellence In-Person Joint Meeting – Colorado State University, Fort Collins, CO, November 11, 2022.

14. *The Role of Critical Facility Performance and Functionality Recovery in Community Resilience to Natural Hazards*, Presented jointly with T. McAllister, 2022 ASCE Convention, Anaheim, CA, October 23-26, 2022.
15. *Enabling the Mass Timber Revolution*, 2022 Natural Hazards Research Summit, National Academies of Science, Washington, DC., October 6, 2022.
16. *The NHERI Tallwood Project*, Woodrise 2022 Technical Conference and Tours, Portoroz, Slovenia, September 6-9, 2022. Presented on behalf of full project team.
17. *IN-CORE for State-of-Art Community Disaster Resiliency Modeling*, John W. van de Lindt, Alfred E Alquist Seismic Safety Commission Meeting, Mather, CA, July 7, 2022.
18. *Multidisciplinary Approaches to Incorporate Resilience into Infrastructure Projects: Progress and Challenges*, John W. van de Lindt, Theme Talk; ICONHIC 2022; Athens, Greece, July 5-7, 2022.
19. *The Interdependent Networked Community Resilience Modeling Environment (IN-CORE): Next Gen Resilience Analysis*. John W. van de Lindt, Insurance Sector Climate Dialogue Meeting; June 30, 2022.
20. *Quantifying the Resilience of Cities, (Panel: Modeling and Assessing Community Resilience using IN-CORE)*, 14th Americas Conference on Wind Engineering, Lubbock, TX, May 17-19, 2022.
21. *Community Resilience-Informed Decision-Making: Combining Physical, Social, and Economic Systems*, University of Delaware Seminar, December 7, 2021 (Virtual).
22. *Interdisciplinary Modeling Progress and the Role of Community Engagement in Resilience Planning*, Americas Keynote, Global Alliance of Disaster Research Institutes, 5th Global Summit, Aug 31 (US)/Sept 1 (Japan), 2021.
23. *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.
24. *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.
25. *Resilient Wood Buildings for Community Resilience to Natural Hazards*, Simultaneous Keynotes to the Canadian Structural Engineering Conference & Canadian Materials Engineering Conference, May 27, 2021.
26. *Moving Resilience from Research to Practice*, InteRaCt Webinar Series, Florida International University, May 14, 2021
27. *Measuring, Modeling, and Improving Community Resilience*, Johns Hopkins University Seminar, May 8, 2021.
28. *Resilience-Informed Guidance through Modeling and Interdisciplinary Field Studies*, CII/Abbett Distinguished Lecture Series; Missouri Science & Technology University, April 19, 2021
29. *The Community Resilience Nexus: Buildings, Networks, and Socio-Economics*, University of Massachusetts – Amherst Seminar, April 16, 2021.
30. *Mass Timber for Resilient Buildings and Communities -Past, Present, and Future*, Starker Lecture Series, Oregon State University (Virtual), March 10, 2021.

31. *Understanding and Measuring the Role of Buildings in Community Resilience to Natural Hazards*, Northwestern University Seminar (Virtual), March 10, 2021.
32. *IN-CORE Risk-informed Decision Support Framework and Joplin Tornado Hindcast*, Oregon State University Seminar, virtual – April, 2020.
33. *Understanding and Modeling the Resilience Life Cycle of Communities: A Multi-Disciplinary Endeavour*, IALCCE, Shanghai, virtual keynote – May 2020.
34. *Best Practices for Community Resilience*, Partners in Energy, virtual – June 11, 2020.
35. *Modeling and Improving Community Resilience: A Multi-Disciplinary Endeavour*, Virtual Planning Workshop, Iowa State University; virtual – June 25, 2020.
36. *A Multi-Disciplinary Approach to Improving Community Resilience to Natural Hazards*, Webinar, virtual – August 26, 2020.
37. *Consideration and Planning Strategies for Whole Building Testing at NHERI@UCSD Challenges and Opportunities*, Joint Academia-Industry NHERI Workshop, virtual – September, 2020.
38. *The Interdisciplinarity of Community Resilience and IN-CORE*, Resilient Cities Workshop, University of Michigan, virtual – October 9, 2020.
39. *CLT Shear Walls: What Do We Know & How Can We Use Them?*, 4th Annual International Mass Timber Conference, Portland, OR, March 19 –21, 2019.
40. *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 4th annual meeting, Chapel Hill, NC, March 27 –28, 2019.
41. *University at Buffalo presentation*, University at Buffalo, New York, April 4 – 5, 2019.
42. *ASCE Structures Congress*, Orlando, FL, April 24 – 27, 2019.
43. *Larimer County Presentation*, Fort Collins, CO, May 6, 2019.
44. *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.
45. *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.
46. *The structure of the interconnected networked community resilience modeling environment*, 2nd International Conference on Natural Hazards & Infrastructure (ICONHIC 2019), Chania, Greece, June 23 – 26, 2019.
47. *NHERI Tall Wood Project and FEMA P695 Studies*, Structural Engineers Association of California, Los Angeles, CA, (Webinar) August 28, 2019.
48. *The Necessary but not Sufficient Condition of Structural Performance*, Texas A&M University Seminar Speaker, College Station, TX, October 24 – 25, 2019.
49. *Community Resilience*, Grand Challenges in Earthquake Engineering, USCD Main Campus, San Diego, CA, Dec 16 – 17, 2019.

50. *Community Level Damage and Recovery Hindcast: The 2011 Joplin Tornado*, 2018 Engineering Mechanics Institute Conference, Cambridge, MA, May 29 – June 01, 2018.
51. *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.
52. *Modeling Community Resilience: Update on the Center for Risk-Based Community Resilience Planning and the Computational Environment IN-CORE*, 17th U.S.-Japan-New Zealand Workshop on the Improvement of Structural Engineering and Resilience, Queenstown, New Zealand, Nov 12 – 14, 2018.
53. *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.
54. *Hurricane Matthew Recovery in Lumberton*, 2017 North Carolina Emergency Management and East Carolina University Hurricane Conference, Greenville, NC, May 24, 2017.
55. *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.
56. *Overview of the Center of Excellence and the Lumberton Field Study*, FEMA Joint Field Office, Durham, NC, September 7, 2017.
57. *Community Resilience Modeling: From Single Structures to Interconnected Socio-Physical Systems*, Northwestern University Seminar, October 6, 2017.
58. *Community Resilience Planning*, ASCE 2017 Convention, New Orleans, LA, October 8-11, 2017.
59. *The Center for Risk-Based Community Resilience Planning*, The 2nd International Workshop on Modelling of Physical, Economic, and Social Systems for Resilience Assessment, Ispra, Italy, December 14-16, 2017.
60. *The Centre of Excellence for Risk-Based Community Resilience Planning*, 2nd International Workshop on Modeling of Physical Economic and Social Systems for Resilience Assessment, at the Joint Research Centre, Ispra, Italy, December 14-16, 2017.
61. *Grand Challenges in Earthquake Engineering, NHERI@UC San Deigo*, 2nd Users Training Workshop, San Diego, CA, December 12-13, 2016.
62. *International Workshop on Modeling of Physical, Economic, and Social Systems for Resilience Assessment*, October 19-21, 2016, Reston, VA.
63. *Resilience, Science, and the Tornado Toll*, Texas State Collaborative: Strategies to Build Texas Resiliency, August 16, 2016, Austin, TX.
64. *Advancing Infrastructure Dependency and Interdependency Modeling*, Argonne National Laboratory, March 2016.
65. *The Science to Identify Attributes that Make Communities Disaster Resilient*, University of Oklahoma, Seminar, February 29, 2016, Norman, OK, w/ B. Ellingwood.
66. *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.

67. *Full-Scale Testing of Woodframe Buildings*, Dinner Meeting of the Structural Engineers Association of Southern Nevada, Sept 11, 2014.
68. *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.
69. *NEES-Soft Soft-Story Woodframe Testing*, Structural Engineers Association of Southern California, Long Beach, CA, March 21, 2014.
70. *The Development of CLT Seismic Design Factors*, Toward Taller Wood Buildings, Chicago, IL, November 6.
71. *Woodframe Buildings*, 2014. Workshop on Future Directions for the UC San Diego Large Outdoor Shake Table, September 5, UCSD, La Jolla, CA, USA.
72. *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.
73. *Residential Wood-Frame and Soft Story Buildings*, 2014. Keynote presentation at the Northridge20 Symposium, January 17, Los Angeles, CA.
74. *Weak-Story Retrofit and Updates about NEES-Wood/NEES-Soft*, 2013 Light-Frame Engineering Symposium, Oct 21-22, Stockton, CA.
75. *Re-use of Experimental Earthquake Engineering Data: Three Illustrative Examples*, Joint Research Centre, SERIES Concluding Workshop, Ispra, Italy, May 30, 2013.
76. *Seismic Retrofit of Soft-Story Woodframe Buildings*, Dinner Presentation, Buffalo Association of Professional Geologists, Buffalo, NY, May 15, 2013.
77. *Establishing a Resilient Building Infrastructure through Performance-Based Seismic Design and Retrofit*, Plenary Session Keynote, 7th National Symposium on Earthquake Prevention and Mitigation Engineering, Chengdu, China, May 10, 2013.
78. *Full-Scale Testing for Design Method Validation*, Southwest Jiaotong University, Civil Engineering Faculty Seminar, Chengdu, China, May 12, 2013.
79. *Multi-Hazard Risk Reduction for the Woodframe Building Inventory*, Invited Seminar, Rensselaer Polytechnic Institute, February 19, 2013
80. *Incorporating Aftershocks in Risk Analysis*, 2012 Earthquake Engineering Research Institute Annual Meeting & National Earthquake Engineering Conference, April 12, 2012., Memphis, TN.
81. *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.
82. *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.
83. *Damage Study and Future Design Direction Following the Tuscaloosa Tornado of 2011*, (2011). International Code Council Tornado Symposium, September 20, Tuscaloosa, Alabama, USA.

84. *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.
85. *Performance-Based Seismic Design of Mid-Rise Woodframe Buildings*, with Steven E. Pryor, NEES-EERI Joint Webinar, January 14, 2011, San Francisco, CA, USA.
86. *Earthquake Engineering Collaboration Across the Pacific* (2010). NSF Tokyo Office 50th Anniversary Symposium, Tokyo, Japan, October 6.
87. *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 Raleigh, N.C., 2 in Atlanta, GA, and a webinar, 2010-2011.
88. *Construction and Shake Table Testing of a 16,000 ft² Full Scale Building* (2010), Northern Colorado Branch of the American Society of Civil Engineering, Budweiser events Center, Loveland, CO, January 14, 2010.
89. *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.
90. *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.
91. *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.
92. *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.
93. *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.
94. *Industry Contributions to and from the NEESWood Project* (2008). Invited Plenary presentation at the 6th NEES Annual Meeting, Portland, OR.
95. *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.
96. *Overview of the NEESWood Project*, (2007). Presentation to the Building Seismic Safety Council – Wood technical Subcommittee (TS-7), Washington D.C., July 26, 2007.
97. *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.
98. *The NEESWood Project: Research to Practice* (2007), 1st eBrownbag Webinar co-sponsored by EERI and NEESInc, April 4, 2007. Davis, CA. Co Presented with K. Cobeen, Cobeen & Assoc.
99. *Toward Performance -Based Design of Woodframe Structures Subjected to Natural*
100. *Hazards Loading* (2005), Structural Engineering and Structural Mechanics Seminar, University of Colorado at Boulder, October 19, 2005.

101. *U.S. Japan Collaboration for Wood Research*, 4th Planning Meeting for NEES/E-Defense Collaboration, Miki City, Japan, August 2-3, 2005.
102. *Performance of Woodframe Structures in the Mississippi Gulf Coast During Hurricane Katrina*, West Coast Lumber Inspection Bureau, Portland, OR, USA, April 21, 2006.
103. *Damage Assessment of Woodframe Residential Structures in the Wake of Hurricane Katrina*, ASCE Northern Colorado Branch Dinner Seminar, January 12, 2006.
104. 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. “Multi-Disciplinary Modeling of Communities to Improve Resilience to Natural Hazards.” The International Scientific Conference International Emergency Mechanisms and Disaster Risk Reduction, Warsaw, September 15, 2022.
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, DHS Coastal Resilience Center of Excellence 3rd Annual Meeting, Chapel Hill, NC, February 28 – March 1, 2018.
3. “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.
4. “The Science of Community Resilience: Overview of the Center for Risk-Based Community Resilience Planning.” 3rd Global Summit of Research Institutes for Disaster Risk Reduction, Kyoto, Japan, March 19-21, 2017.
5. “Seismic Wood Research in the U.S.” First NHERI/E-Defense Joint Meeting, Tokyo, Japan, July 13, 2017.
6. “Developing the Scientific Basis for Community Modeling and Risk-Informed Community Resilience Decision-Making.” ASCE Congress on Technical Advancement, Duluth, MN, September 13, 2017.
7. “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.
8. “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.
9. “Cross Laminated Timber Seismic Performance Factor Development in the U.S.” National Research Council, Canada, Committee Meeting, December 4, 2017.
10. 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.

11. 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.
12. 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.
13. 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."
14. van de Lindt, J.W. (2012). US-Vietnam Multi-Hazard Mitigation Workshop in a Changing Climate, Hanoi, Vietnam, December 8-11, 2012.
15. 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." *65th International Convention of the Forest Products Society*, Portland, OR, June 19-21.
16. Dao, T.N. and J.W. van de Lindt. (2011). "The development of Performance-Based Wind Engineering for Residential Structures: From Concept to Application." *65th International Convention of the Forest Products Society*, Portland, OR, June 19-21.
17. 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.
18. 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.
19. 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. 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.
2. Session and Keynote Chair, *4th International Conference on Transportation Infrastructure and Sustainable Development (TISDIC-2023)*. August 26 -28, 2023, Danang, Vietnam.
3. Resilience Week Panel Discussion Member, *Infrastructure Resilience Modeling Challenges*, Oct 18, 2021
4. Scientific Committee, *ICASP 2019*, Seoul Korea
5. *ICONHIC 2019*, Chania, Greece
6. Scientific Committee, *WCTE 2018*, Seoul Korea
7. Network Independent Advising Council, *Natural Hazards Engineering Research Institute*, San Antonio, TX, June 2018
8. Chair, Parallel Session 2E, *Eighth Kwang-Hua Forum*, Shanghai, China 2018
9. Topic Chair, Technical program Committee, *11th U.S. National Conference on Earthquake Engineering*, Los Angeles CA.

10. Scientific Committee, *ICOSSAR 2017* Vienna, Austria.
11. Reviewer for Canada Research Chair renewals and New Chairs, 2017
12. Technical Program Committee, *11th U.S. National Conference on Earthquake Engineering*, June 2018, Los Angeles, CA.
13. 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.
14. International Scientific Committee, *Second International Conference on Performance-based and Life-cycle Engineering (PLSE 2015)*, Brisbane, Australia.
15. Reviewer for University of Wisconsin Milwaukee Research Foundation Catalyst Program, 2014.
16. Session organizer and upcoming chair. “Retrofit of Soft-Story Woodframe: Testing Analysis and Policy.” *U.S. National Conference on Earthquake Engineering*, Anchorage, Alaska.
17. Session organizer chair. “Experimental and Modeling Studies on Woodframe Buildings.” *2014 Structures Congress*, April 3-5, Boston, MA.
18. Session Co-Chair, *SERIES Concluding Workshop*, European Commission, May, 2013, Ispra, Italy.
19. International Advisory Board, *RILEM Conference: Materials and Joints in Timber Structures – Recent Advances and Technology*, October 8-10, 2013, Stuttgart, Germany.
20. Co-Organizer, *US-Vietnam Multi-Hazard Mitigation Workshop* in a Changing Climate, Hanoi, Vietnam, December 8-11, 2012.
21. Mini Symposium Organizer and Chair, “Performance-Based Design of Wood Structures.” *PLSE*, Hong Kong, December 5-7, 2012.
22. Session Chair. “Lateral Load Systems.” *2012 World Conference on Timber Engineering*, Auckland, NZ; July 15-19.
23. Reviewer for U.S. National Research Council Research Associateship Programs, *National Academies*, 2012-Present (ongoing).
24. Proposal reviewer for the Natural Sciences and Engineering Research Council of Canada
25. Session organizer and Chair for *2012 Structures Congress*, “Seismic Risk Reduction for Soft-Story Woodframe Buildings.” Chicago.
26. Invited Participant (representing NEES Users), NSF Budget and Operations Subcommittee Meeting on Re-competition of Large Facilities, Nov 2-3, 2011.
27. Conference Co-Chair on behalf of the University of Alabama, *Earthquake Analysis and Design of Structures*, December 1-3, 2011, Coimbatore, India.
28. Co-organizer (with Yue Li), Multiple Hazards Risk Assessment and Mitigation, *Mini Symposium, ICASP 11*, Zurich.

29. 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.
30. Session Organizer and Chair. "Special Session: Changes in the Seismic Design of Wood Buildings to Reach New Heights." *9th U.S. National and 10th Canadian Conference on Earthquake Engineering, Reaching Beyond Borders*, Toronto, Canada, July 25-29, 2010.
31. Session organizer, *Quake Summit 2010*, San Francisco, CA, Wood and Masonry Buildings, Joint NEES-PEER Annual Meeting.
32. Session organizer and chair, Wood Buildings Session, *US-Canada Joint Conference on Earthquake Engineering*, 2010, Toronto, Canada.
33. Track organizer and session chair. "Seismic Design of Wood Buildings." *2008 World Conference on Earthquake Engineering*, Beijing, China.
34. 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.
35. Technical Program Chair, *5th Annual Network for Earthquake Engineering Meeting*, June, 2006, Snowbird, Utah.
36. Coordinating Board Member and Breakout Session Facilitator. "Wood Research Needs in the New Millenium." Breakout Session: Natural Hazards. *Structures Congress*, 2008.
37. Session organizer. "Natural-Hazards Induced Damage to Woodframe Structures." *2006 Structures Congress and Exposition*, St. Louis, MO, May.
38. Session organizer. "Performance-Based Design of Woodframe Structures: Perspectives from Around the Globe." *World Conf on Timber Engineering*, Portland, OR, August 1-6.
39. 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.
40. Organizer and Host of the *1st Invitational Conference on Performance-Based design of Wood Structures*, Fort Collins, CO, July 28-29, 2005.
41. Session chair and session organizer. "Performance-Based Reliability of Wood Shear Walls." *2003 Structures Congress and Exposition*, Seattle, WA, May 29-June 1, 2003.
42. 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.
43. Session co-chair, *8th ASCE Joint Specialty Conference on Probabilistic Mechanics and Structural Reliability*, Notre Dame, IN, July 24-26, 2000.
44. National Science Foundation Review Panel Member, *Investigation of the Turkey and Taiwan Earthquakes*, 2000.
45. National Science Foundation Reviewer for *Development of the NEES Consortium*, 2001.
46. National Science Reviewer for *CAREER Development Panel*, Jan 2004.
47. National Science Reviewer for *Major Research Instrumentation Panel*, Jan 2005.

48. Reviewer for McGraw-Hill Companies, *Fundamentals of Structural Analysis, 2nd Ed., Chapter 2: Design Loads*, K.M. Leet and C-M Uang.
49. Reviewer for Jon Wiley and Sons, *Structural Analysis: Using Classical and Matrix Methods, 3rd Edition*, J.K. Nelson, Jr. and J.C. McCormac.
50. Reviewer for Jon Wiley and Sons, *Fundamentals of Structural Analysis, 2nd Edition*, H.H. West and L.F. Geschwindner, Jan 2004.
51. Proposal reviewer for the Southwest Research Institute, Florida Sea Grant.
52. 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; 25 additional investigators across 13 additional universities).
2. Capstone Seismic Testing of Mass Timber Building, 7/29/22 – 12/31/23, \$100,000, USDA-USFS-Forest Research, (PI – van de Lindt).
3. Collaborative Research: Enabling Damage reduction and Improved Urban Community Resilience through Data-and-Physics-Integrated Windborne Debris Modeling, 7/1/22 – 6/30/25, \$422,112 (CSU Portion); (Co-PI – van de Lindt; PI: Guo, CSU; Co-PI: Gurley, UF); NSF-CMMI.
4. POSE: Phase 1: Establishing an Open-Source Ecosystem for the Interdisciplinary Networked Community Resilience Modeling Environment (IN-CORE), 9/15/22 – 2/28/24, NSF- National Science Foundation, \$300,000, (PI – van de Lindt).
5. Mid-scale RI-1 (M1:DP): National Full-Scale Testing Infrastructure for Community Hardening in Extreme Wind, Surge, and Wave Events (NICHE), 12/01/22 – 01/31/26, \$106,875, (PI – van de Lindt).
6. Collaborative Research: Converging Design Methodology: Multi-objective Optimization of Resilient Structural Spines, 9/1/21 – 8/31/24, \$349,775 (CSU portion) (Co-PI – van de Lindt; PI – Barbosa, OSU).
7. Experimental and Numerical Study to Improve Damage and Loss Estimation due to Overland Wave and Surge Hazards on Near-Coast Structures, 01/01/16 – 06/30/24, Subaward with UNC at Chapel Hill, \$201,607 in FY23. (~\$800,000 over 8 years total) (PI – van de Lindt).

8. Seismic Testing Final Projects, 07/11/23 – 01/31/24, U. S. Endowment for Forestry and Communities, \$245,344. (PI – van de Lindt).
9. Collaborative Research: Development and Validation of A Resilience-based Seismic Design Methodology for Tall Wood Buildings, 09/01/16 – 08/31/2024, NSF- National Science Foundation, \$286,199 (CSU PI – van de Lindt; Overall PI: Pei, CSM).

Completed Projects

10. Stacked 2-story Conventional Shear Wall Test, 01/30/18 – 01/29/2023, USDA-USFS Forest Research, \$215,000. (PI – van de Lindt).
11. Tallwood Project 10-Story Testing, 03/01/21 – 3/31/23, \$315,000, USDA-USFS-Forest Research, (PI – van de Lindt).
12. Cooperative Research to Enable Mass Timber Multi-Family Housing Technologies, 09/20/19 – 09/20/2022, US Department of Housing and Urban Development, \$400,000. (PI – van de Lindt).
13. 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).
14. 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).
15. 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).
16. 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).
17. 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).
18. 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).
19. 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).
20. 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).
21. 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).
22. 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).

23. 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.
24. 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).
25. 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.
26. 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).
27. 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).
28. 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).
29. 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).
30. 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.
31. 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.
32. 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).
33. 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).
34. The Prescient Companies: Phase I, 8/1/10 – 9/30/11, \$150,000 (PI – van de Lindt).
35. Reliability-Based Analysis and Design of Slender Long-Span Bridges, NSF, \$243,000, (Co-PI – van de Lindt; PI – Chen, CSU).
36. 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).
37. Rapid Load Rating of Short Rural Bridges, \$31,000 (PI – van de Lindt).
38. 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).
39. Financial Support for Six-Story Wood Building Tests in Japan, \$75,000(CAD), Government of British Columbia (PI – van de Lindt).

40. One time financial support for existing NEESWood Project above.
41. Financial Support for NEESWood Tests in Japan, \$50,000 (CAD), FPInnovations (PI – van de Lindt).
42. 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).
43. International Travel Support for US Researchers to attend E-Defense Testing in Japan, NSF-CMMI, \$25,000 (PI-van de Lindt).
44. 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).
45. 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).
46. 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).
47. 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).
48. NEESR Payload: Wave Loading on Residential Structures with Earthquake and Hurricane Applications, NSF, \$75,000 (PI: van de Lindt; Co-PI: Gupta, OSU).
49. Innovative applications of Fly Ash: Roof Tiles, Colorado Commission on Higher Education, \$113,000 (Co PI – van de Lindt; PI - Heyliger; Co-PI - Atadero).
50. 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).
51. Enabling Innovative Plate Girder Bridges: Simple Spans Made Continuous, MPC (UTC), \$35,000 (PI – van de Lindt).
52. Statistical Characterization of Wind Distributions for fatigue Assessment of Structural Supports in Colorado, CDOT, \$40,100.
53. 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).
54. Innovative Steel Design Alternatives for Bridges in Colorado, CDOT, 4/15/06-3/30/09, \$50,000 (PI: van de Lindt; Co-PI: Chen).
55. 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).
56. 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.).
57. 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).

58. 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.).
59. 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.).
60. Development of Steel Beam End Deterioration Guidelines, Michigan Department of Transportation, 03/01/03 – 07/31/04, \$68,000 (PI – van de Lindt).
61. 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.).
62. 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.).
63. 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.).
64. 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).
65. Comparison of Steel Overhead Sign Support Structures, Michigan Department of Transportation, 03/19/03 – 08/31/03, \$54,000 (PI – van de Lindt).
66. 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).
67. 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.

FPIinnovations-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.