# Curriculum Vitae (Updated May 2019)

Keri L. Ryan, Ph.D.
Associate Professor

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## **Professional Preparation**

Jniversity of California, Berkeley, CA	
Ph.D. in Structural Engineering, Mechanics and Materials	2004
Dissertation: "Estimating the Seismic Response of Base-Isolated Buildings	
Including Torsion, Rocking, and Axialload Effects"	

University of California, Berkeley, CA M.S. in Structural Engineering, Mechanics and Materials 1999

## Teaching Experience at University of Nevada, Reno

CEE 120: Civil Engineering in a Sustainable Society

Offered Spring 2014-2016
Typical Enrollment: 90-150

CEE 372: Mechanics of Solids

Offered Spring 2011, Fall 2012-2015, Spring 2015

Typical Enrollment: 100-150

CEE 381: Structural Analysis Offered Fall2012, 2017, 2018 Typical Enrollment: 30-100

CEE 482/682: Design of Timber Structures

Offered Spring 2019

Enrollment: 32

CEE 486/686: Computational Structural Analysis

Offered Fall 2017, 2018

Enrollment:6-12

CEE 704: Finite Element Analysis

Offered Spring 2012, 2014 Typical Enrollment: 612

CEE 721: Nonlinear Structural Analysis

Offered Spring 2013, Fall 2014, Spring 2018

Typical Enrollment: 612

CEE 724: Elasticity
Offered Fall 2010
Enrollment: 11

Teaching Experience at Utah State University

CEE 6130: Structural Dynamics and Seismic Design

Offered Every Fall 2004 – 2009

Typical Enrollment: 10-15

CEE 6930/6010: Finite Element Analysis of Structures

Offered Spring 2006, 2008-2010

Typical Enrollment: 10-15

CEE 3010: Mechanics of Materials

Offered Fall 2006 – Fall 2009 Typical Enrollment: 60-70 CEE 7110: Constitutive Modeling and Structural Response

Ronaldo Grijalva Alvarado

M.S.

Incoming F19

Refereed Journal Publications

Eltahawy, Walaa, Ryan, Keri L

Cutfield, Matt R., RyanKeri L., Ma, Quincy. "Comparative life cycle analysis of conventional and basėsolated buildings", Earthquake Spectra EERI, 32(1):323343. http://dx.doi.org/10.1193/032414EQS0402016.

Guzman Pujols, Jean Ryan, Keri L. "Development of generalized fragility functions for seismic induced content disruption' Earthquake Spectra, EERI, 32(3):130324. <a href="http://dx.doi.org/10.1193/081814EQS13/02015">http://dx.doi.org/10.1193/081814EQS13/02015</a>.

Ryan, Keri L., Soroushian, Siavash, Maragakis, E. Manos, Sato, Eiji,

Ryan, Keri L. and Chopra, Anil K.

- Earthquake EngineeringEarthquake Engineering Research Institute, Los Angeles, CA. June 2018.
- Ryan, K. L., Button, M.R, Mayes, R.L. "ASCE 7-16 lateral forces for static design of baseisolated buildings", Eleventh U.S. National Conference on Earthquake Engineering, Earthquake Engineering Research Institute, Los Angeles, CA. June 2018.
- Hasani, H.,Ryan, K., Amer, A., Ricles,J., Sause, R'Pre-test seismic evaluation of drywall partition walls integrated with a timber rocking wall", Eleventh U.S. National Conference on Earthquake Engineering, Earthquake Engineering Research Institute, Los Angeles, CA. June 2018.
- Moustafa, M. A., Joe, Christopher D., Ryan, Keri 'Seismic design and performance of ultra-high performance concrete bridge bents' roc., AFGC-ACI-fib-RILEM Int. Symposium on Ultraligh Performance Fibre-Reinforced Concrete HPFRC 2017)October 2017.
- Ryan, K. L. Coria, C. B. "Influence of base frame/slatiffness on seismic loading of hybrid isolation systems", Proc., 2017 New Zealand Society for Earthquake Engineering (NZSEE) Conference and Anti-Seismic Systems International Society<sup>th</sup> 1%/orld Conference on Serinic Isolation, Energy Dissipation and Active Vibration Control of Structure, April 2017. Peer Reviewed.
- Pei, S., van de Lindt, J. W., Ricles, J. Sause, R., Berman, J., Ryandokan, J.D., Buchanan, A., Robinson, T., McDonnell, E., Blomgren, H., Popovski, M., Rammer, D. "Development and fulscale validation of resiliendeased seismic design of tall wood buildings: the NHERI Tall Wood Project", Proc., 2017 New Zealand Society for Earthquake Engineering (NZSEE) Conferenced Anti-Seismic Systems Intentional Society 15 World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structure-April 2017. Peer Reviewed.
- Eltahawy, W.Ryan, K., Cesmeci, C., Gordaninejad, F. "Fundamental dynamics of 3-dimensional seismic isolation", Proc., \*\*Hollowed Conference on Earthquake Engineering, Paper No. 1508, Chilean Association of Seismology and Earthquake Engineering, Santiago, Chile, January 2017. Peer Reviewed.
- Ryan, K., Zargar, H., Marshall, J., Rawlinson, T. "Experimental validation of a gap damper to control the displacement demands in a seismically isolated building", Proc., 16 World Conference on Earthquake Engineering, Paper No. 1508each Associat., G the displof.14

- Engineering Research littste, Anchorage, AK, July 2014. Peer Reviewed.
- Guzman, J. C., Ryank. L. "Experimental Study of Target Demands to Minimize Seismic Induced Content Disruption" Proc., 10th U.S. National Conference on Earthquake Engineering Earthquake Engineering Research Institute, Anchorage, AK, July 2064. Reviewed.
- Cutfield, M. R., Ryan, K. L., Ma, Q. T. "NEES TIPS Project: A Case Study Gestnefit Analysis on the Usef Base Isolation in a Low-Rise Office Building," Proc., 10th U.S. National Conference on Earthquake Engineering, Earthquake Engineering Research Institute, Anchorage, AK, July 201 Peer Reviewed.
- Okazaki, T., Sato, ERyan, K. L., Sasaki, T., Mahin, S. "Performance of Triple Pendulum Bearings in a FulScale Shake Table Test Program oc., 10th U.S. National Conference on Earthquake Engineering, Earthquake Engineering Research Institute, Anchorage, AK, July 2014. Peer Reviewed.
- Coria, C. B., Ryan K. L. "Response of Hybrid Isolation System during a Shake Table Experiment of a Full Scal Seismically Isolated Building'Proc., 10th U.S. National Conference on Earthquake Engineering, Earthquake Engineering Research Institute, Anchorage, AK, July 2014. Reviewed.
- Zargar, H., Ryan, K. L., Marshall, J. D., Rawlinson, T. "The Effects of Residual Displacement on Gap Damper Performance", Proc., 10th U.S. National Conference on Earthquake Engineering Research Institute, Anchorage, July 2014. Peer Reviewed.
- Masroor, A., Sanchez, Mosqueda, Ryan, K. L. "Dynamic Stability of Elastomeric Bearings at Large Displacements", Proc., 15th World Conference on Earthquake Engineering Portuguese Society for Earthquake Engineetiis on, Portugal, September 2012, Peer Reviewed.
- Zargar, H., Ryan,K. L., Rawlinson,T., Marshall, J. D. "Exploring the Gap Damper Concept to Explore Seismic Isolation Displacement Demands", Proc., 15th World Conference on Earthquake Engineering, Portuguese Society for Earthquake Engineering, Lisbon, Portugal, September 2012, Peer Reviewed.
- Sasaki, T., Sato£., Ryan, K. L., Okazaki, T., Mahin, S. A., Kajiwara, K. "NEES/E-Defense Bastsolation Tests: Effectiveness of Friction Pendulum and Leaduber Bearing Systems", Proc., 15th World Conference on Earthquake Engineering, Portuguese Society for Earthquake Engineering, Lisbon, Portugal, September 2012, Peer Reviewed.
- Ryan, K. L., Dao, N. D., Sato, E., Sasaki, T. Okazaki, T. "NEES/E-Defense Base-Isolation Tests: Interaction of Lateral and Vertical Response", Proc., 15th World Conference on Earthquake Engineering, Portuguese Society for Earthquake Engineering, Lisbon, Portugal, September 2012, Peer Reviewed.
- Okazaki, T., Sato, T. Sasaki, Kajiwara, K, Ryan, K. L., Mahin, S. "NEES/E-Defense Basesolation Tests: Performance of Triple Pendulum Bearings", Proc., 15th World Conference on Earthquake Engineering, Portuguese Society for Earthquake Engineering, Lisbon, Portugal, September 2012, Peer Reviewed.
- Soroushian, S., Ryak, L., Maragakis, E., Wieser, J., Sasaki, T., Sato, E., Okazaki, T.,

Erduran, E. and RyanKeri L. "Torsional behavior of steel braced frames"oc.,9th U.S. National and 1th Canadian Conference on Earthquake Engineering, Toronto, Canada, July 25-29, 2010, Peer Reviewed

Mosqueda, G.,Masroor, A., Sanchez, J. and Ryan, K. "Performance limit states of seismically isolated buildings with elastomeric bearing soc., 9th U.S. National and 1th Canadiand (20) inference near the Earthoop 12 Engline ering, Tortonto, Canada, July 25- Td (.

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Ryan, Keri L. and Chopra, Anil K. "Overturning esponse of baseolated building considering bearing xial-load effects", 9<sup>th</sup> World Seminar on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structure Anti-Seismic Systems International Society, Kobe, Japan, June 13-16, 2005.

Ryan, Keri L., Kelly, James M. and Copra, Anil K. "Experimental observation of axilalad effects in isolation bærings", Paper No. 1707. 13th World Conference on Earthquake Engineering, Canadian Association for Earthquake Engineering, Vancouver, British Columbia, Canada, 2004.

Ryan, Keri L. and Chopra Anil K. "Nonlinear response pactra for isolated buildings", ASCE Structures Congresseattle, WA, 2003. Peer Reviewed.

Hall, John F. and RyarKeri L. "Nearsourceeffects and the solation provisions of the 1997 UBC", ASCE Structures Congressew Orleans, LA, 1999.

Ryan, Keri and Hall, John F. "Aspects of building esponse to nessource ground motions", Structural Engineers World CongreSan Francisco, CA, 1998.

### Published Research Reports

White, Leanne, Ryan, Keriand Buckle, Ian. Thermal Gradients in Southwestern United States and the Effect on Bridge Bearing Loads. CCEER Report 10d. Center for Civil Engineering Earthquake Research, University of Nevada, Reno, 2017.

Guzman Pujols, Jean C., and Ryanerk L. Slab Vibration and Horizontal Coupling in the Seismic Resped Rsne

Engineering Earthquake Research, University of Nevada, Reno, 2013. http://www.unr.edu/cceer/publications/2013/19-

Mohebbi, Aireza., Ryan, Keri L., Sanders, Divid H. Seismic Response of a Highway Bridge with Structural Fuses for Seismic Protection of Piers. CCEER Report No. 13-18. Center for Civil Engineering Earthquake Research, University of Nevada, Reno, 2013. http://www.unr.edu/cceer/publications/2013/18-

Ryan, Keri L., Coria, Camila B., Dao, Nhan D Large Scale Earthquake Simulation of a Hybrid Lead Rubber Isolation System Designed with Consideration of Nuclear Seismicity, CCEERReport No. 1399. Center for Civil Engineering Earthquake Research, University of Nevada, Reno, 2013. http://www.unr.edu/cceer/publications/2013/13-9

Ryan, Keri L. and Richins Brian. Design, Analysis and Performance Evaluation of a Hypothetical Seismically Isolated Bridge on Legacy High Report No. UT11.01, Utah Department of Transportation, 2011.

Hu, Wenying and RyanKeri L. Exploratory Study of Partial Isolation of Highway Bridges Report No. UT-11.03, Lath Department of Transportation, 2011.

Wilson, Nash and RyarKeri L. Seismic Retrofit Guideles for Utah Highway Bridges Report No. UT-09-06, Utah Department of Transportation, 2009.

Shafieezadeh, Abdollah, Hu, Wenying, Erdurannah and Ryan, Keri L. Seismic Vulnerability Assessment and Retrofit Recommendations for State Highway Bridges: Case Studies Report No. UT-09-08, Utah Department of Transportation, 2009.

Ryan, Keri L. and ChopraAnil K. Estimating the Seismic Response of Bastated Buildings Including Torsion, Rocking, and Axlabad Effects EERC Rep. No. 20061, Earthquake Engineering Research Center, University of California, Berkeley, CA, 2005.

#### **Published Datasets**

Zargar, HamedRyan, Keri. "System Test of a Baselated Building", Network for Earthquake Engineering Simulation (distributor), Dataset, 2015, DOI:10.4231/D37W6766.

Zargar, Hamed, Ryarkeri. "System Test of a Basselated Building with Gap Damper", Network for Earthquake Engineering Simulation (distributor), Dataset, 2015, DOI:10.4231/D3445HD26.

Rawlinson, Taylor, Marshall, Justin, Ryan, Keri, Zargar, Hamed (2014). "Component Test of a Gap Damper System to Control Isolator Displacements in Extreme Earthquakes", Network for Earthquake Engineering Simulation (distrib), tor Dataset, DOI:10.4231/D30V89J0P.

Becker, T., Mahin,S., Neighbor, W.,Ryan, K. L. Bi-Directional Characterization of Triple Friction Pendulum IsolatorsNetwork for Earthquake Engineering Simulation Database, 2013, 2013, DOI:10.4231/D3R20RW69.

Ryan, K. L., Sato, E., Sasaki, T., Okazaki, T., Guzman, J., Dao, N., Soroushian, Coria, C. Full Scale 5story Building in Fixed Base Condition at Defense. Network for Earthquake Engineering Simulation Database, 2013, DOI:10.4231/D3NP1WJ3P.

Ryan, K. L., Sato, E., Sasaki, T., Okazaki, T., Guzman, J., Dabl., Soroushian, SÇoria, C. Full Scale 5story Building with LRB/CLB Isolation System and Efense. Network for Earthquake Engineering Simulation Database, 2013, DOI:10.4231/D3SB3WZ43.

Ryan, K. L., Sato, E., Sasaki, T., Okazaki, T., Guzman, Dao, N., Soroushian, SÇoria, C. Full Scale 5story Building with Triple Pendulum Bearings at Defense Network for Earthquake Engineering Simulation Database, 2013, DOI:10.4231/D3X34MR7R.

#### Presentations at Professional Meetings

"NHERI Tall Wood Project: Fulscale seismic test of a -150 ory mass timber building in 2020", NHERI@UC San Diego <sup>th</sup>4 Users Training Workshop, San Diego, CA (presentation given remotely), Dec. 14, 2018.

"Influence of Vertical GroundShaking on Design of Bridges Isolated with Friction Pendulum Bearings", PEER Researchers' Workshop, Richmond, CA, August 8, 2018.

"Exterior Facades", Vertically Distributed Nonstructural Components (vNCS) Workshop, University of California, San Diego, July 18, 2018.

"ASCE 7-16 Lateral Forces for Static Design of Baselated Buildings", Eleventh U.S. National Conference on Earthquake Engineering, Earthquake Engineering Research Institute, Los Angeles, CA, June 26, 2018.

"Lessons Learned from 3D Shake TeabTesting of a FulScale Seismicallysolated Building", Retirement Symposium and Celebration of the Career of Anil K. Chopra, Berkeley, CA, Oct. 2, 2017.

"Experimental Evaluation of Alternative Low Damage Solutions for Reinforced Concrete Walls" (Poster Presentation, with Stephen Blount, Richard Henry, Yiqiu Lu, Zhibin Li, Kenneth Elwood), 2017 QuakeCoRE Annual Meeting, Taupo, New Zealand, Sept. 4-2017.

"Development and FullScale Validation of ResilieneBased Seismic Design of Tall Wood Buildings: the NHERI Tall Wood Project", 2017 New Zealand Society for Earthquake Engineering (NZSEE) Conference Anti-Seismic Systems International Society 15 World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structure's Wellington, New Zealand, April 29, 2017.

"Influence of BaseFrame/\$ab Stiffness on Seismic Loading of Hybrid Isolations Sems", 2017 New Zealand Society for Earthquake Engineering (NZSEE) Conference On Seismic Isolation, Energy Dissipation and Active Vibration Control of Structult, els/ellington, New Zealand, April 28, 2017.

"Experimental Validation of a Gap Damper to Control the Displacement Demands in a Seismically Isolated Buildigi" (Poster Presentation),16th World Conference on Earthquake Engineerin, Santiago, Chile, January 12, 2017. W5 Td <00BE>Tj /TT0 1 Tf 0.795 0

"Horizontal-Vertical Coupling of a Building Frame System in Shake Table Testing to 3D Motions" (Poster Presentation Quake CoRE Annual Meeting, Taupo, NZ, Sept. 2016.

"Lessons Learned from 3D Shake Table Testing of a-Scale Seismically Isolated Building", EERI Annual Meeting, San Francisco, CA, April 8, 2016.

"Active Learning and Engagement in Solid Mechanics", 2015 ASEE Annual Conference and Exposition, Seattle, WA, June 15, 2015.

"Influence of Vertical Excitation in the NEES/Energy Base Isolatio Tests", 10<sup>th</sup> U.S. National Conference on Earthquake Engineeri Agchorage, AK, July 24, 2014.

"Future Directions in Seismic Protective Systems Research, MBES/EDefense Planning Meeting, Kyoto, Japan, Dec. 12, 2013.

"Overview of NEES/EDefense Test Program" (with Camila Coria), NEES TIPS Whap Workshop: Taking Stock of What We've Learned, San Diego, CA, September 18, 2013.

"Influence of Vertical Excitation in the -Defense Tests", NEES TIPS Wrlap Workshop: Takin Stock of What We've Learn San Diego, CA, September 18, 2013.

"Influence of Vertical Excitation and the Response of Nonstructural Systems in the NEES/EĐefense Base Isolation Test EES Quake Summit 2013, Reno, NV, August 8, 2013.

"NEES E-Defense Base Isolation Tests: Interaction of Horizontal and Vertical Response", 15<sup>th</sup> World Conference on Earthquake Engineering, Lisbon, Portugal, Sept. 26, 2012.

"NEES E-Defense Tests: Seismic Performance of Ceiling/Sprinkler Piping Nonstructural Systems in Basksolated and FixedBase Buildings", 15 World Conference on Earthquake EngineeringLisbon, Portugal, Sept. 26, 2012.

"NEES TIPS/EDefense Tests of a Full Scale Baselated and FixeBase Building", NEES Quake Summit 2012, Boston, MA, July 12, 2012.

"Aspects of Isolation Device Behavior Observed from Full Scale Testing of an Isolated Building at E-Defense", being 1 (n)3

"Lessons Learned from 3D Shake Table Testing of a Studie Seismically Isolated Building", Colorado School of Mines, November 11, 2017.

"Lessons Learned from 3D Shake Table Testing of a-Stable Seismically Isolated Building", Oregon State UniversityNovember 10, 2016.

"Lessons Learned from 3D Shake Table Testing of a Scalle Seismically Isolated Building", NZSEE Traveling Lecturesponsored by New Zealand Society for Earthquake Engineering Presentations in Auckland, Christchurch, and Wellington, New Zealand, September 2016. Archived seminar linkhttps://www.nzsee.org.nz/library/past-seminars/20162/prof-keri-ryan-3-dimensional-shaktebletestingof-a-full-scale-seismicallyisolatedbuilding/

"NEES Research Impact on Structural Engineering: Value of International Collaborations", Panelist for Themed SessidnQh U.S. National Conference on Earthquake EngineeringAnchorage, AK, July 2014.

"From Large Scale Test Findings to Content Analysis of Basesolated Buildings" (with Anthony Giammona, Gilberto Mosqueda, and Stephen Mahin, Presentation was webcast and archived) IEES/EERI Research to Practice Webinar Series, November 20, 2013.

"Exploratory Study of Structural Fuses to Protect Columns of Monolithic Bridges", Nevada Department of Transportation, Carson City, NV, April 25, 2013.

"Early Observations from the NEES TIPS/Defense Collaborative Test Program on Innovative Seismic Isolation Solutions", (Presentation was webcast and archived), SEMM Seminar at University of California Berkeley, CA, October 24, 2011.

"NEES/E-Defense Test Program, Objectives and Overview<sup>th</sup>, NeES/EDefense Collaborative Earthquake Engineering Research Program Planning Me**Mik**g, Japan, August 26, 2011.

"Making the Case for High Seismic Performance", Summer Residents at Oak Ridge ApartmentsLogan, UT, June 23, 2010.

"Modeling and Performance Evaluation of Conventional and Badeted Theme Buildings", University of Nevada, Ren Reno, NV, February 19, 2010.

"Modeling and Performance Evaluation of Conventional and Badeted Theme Buildings", Forell-Elsesser Engineer San Francisco, CA, January 29, 2010.

"Comparative Life Cycle Performance Assessment of Conventional and Seismic Isolated Buildings", JSSI 15 Anniversary Symposiumokyo, Japan, September 16, 2009.

"Response Control in the U.Sand Introductor to NEES TIPS", CIB/W114 Workshop on Response Control and Seismic Isolation of Building, China, November 17, 2008.

"Modeling and Characterization of Balselation Systems for Estimation of Seismic Response" Civil Engineering Seminar, Califoia Institute of Technology May 25, 2006.

#### **Funded Projects**

US Forest Service Wood Innovation Fund, "Advancing Tall Mass Timber Buildings

through Seismic Resilience Testing", Under Contract, Expected Timeline: 07/01/2019 – 06/302022, Principalnvestigator, \$250,000.

National Science Foundation, "Thremmensional Isolation System for Building Resilience to Earthquake Hazard", 08/01/2014-07/31/2018, Principal Investigator, \$359,132.

"Full Scale Seismic Isolation Test Program at Defense Collaboration of NEES TIPS/NEES Nonstructural/NIEDAugust 2011, Principal Investigator, U.S. side funding from 3 projects below and about \$1 million in industry contributions from 8 different companies.

Nuclear Regulatory Commission, "Large Scale Simulation of a BastatedStructure with Elastomeric Bearings to Extreme Earthquakes", 08/30/2/15/13, Principal Investigator, \$280,463.

National Science Foundation, "Collaborative Research: An Innovative Gap Damper to Control Seismic Isolator Displacements in Extreme Earthers 1/2/14/07/01/11-06/30/15, Principal Investigator, \$19494.

National Science Foundation, "NEESEC: Simulation of the Seismic Performance of Nonstructural Systems, Supplement foDEfense Tests", Supplement awarded February 2011, Unofficial CoPrincipal Investigator, \$210,000.

Utah Department of Transportation "Seismic Isolation Bearings for Accelerated Bridge Construction", 04/01/08-04/30/10, Principal Investigator, \$63,305.

National Science Foundation, NEES Resear of the ESRSG: TIPS: Tools to Facilitate Widespread Use of Isolation and Protective Systems, a NEES of Science Collaboration 10/01/0709/30/13 Principal Investigator leading team of 5\$1,709,999 (with \$100,000 supplement awarded August 2010) \$60,000 supplement awarded August 2010 \$60,000 supplement 2010

National Science Foundation through USU's Advance Program, "Transitional Support", 05/01/0706/30/09, Principal Investigator, \$14,500.

Utah Department of Transportation, "Evaluation of Bridges for Seismic Retrofit", 09/01/06 08/31/08, Principal Investigator, \$50,123 with Utah Transportation Center match of \$61,123.

National Science Foundation through USU's Advance Program, "Collaborative Grant Support: Performancebased Engineering of Bassolated Buildings", 01/01/05/2/31/05, Principal Investigator, \$7580.

#### Awards and Fellowships

NEES Outstanding Contributor Award in the category of Outstanding Project Curation. For curation of the project TIPSTools to Facilitate Widespread Use of Isolation and Protective Systems the NEES Project Warehouse. Awarded in 2014.

Travel Award to attend 0<sup>th</sup> Planning Meeting for NEES/Defense CollaborationKyoto, Japan, Dec. 113, 2013.

Travel Award to attend International Conference on Urban Earthquake Engineer Ing San Conference on Earthquake Engineering, Tokyo, Japan, March, 2012.

JSPS Fellowship for Research in Japashert Term Japan Society for the Promotion of Science. Funded travel to Japan in Ausseptember 2011.

Research featured in USU Research Calendar for 2009.

Million Dollar Dinner, Recognized for earning more than \$1 million in sponsored projects for FY08.

NEES Travel Award to attend Planning Meeting for NEES Defense Collaboration Defense, Miki City, Japan, Sept.-29, 2007.

NACADA Outstanding New Advisor Certificate of MeriFaculty Academic Advising 2007.

USU Outstanding New Advisor AwardFaculty Academic Advising 2006

Participant and Travel Award to attend NSF WEE-'06' orkshop for the Advancement and Retention of Underrepsented and Minority Engineering Educator Ington, VA. March 5 8, 2006.

NEES Young Researcher Travel Award to attend the Fourth NEES Annual Meeting, June 21-23, 2006.

Dean's College of Engineering Merit Based Fellowship, UC Berkeley, 2003.

National Science Foundation Graduate Research Fellowship, 12981-

Structural Engineers Association of Southern California Auxiliary Outstanding Student Award, 1998.

Donald S. Clark Award, Caltech, 1997.

Summer Undergraduate Research Fellowship, Caltech, 1997.

Doris S. Perpall Speaking Competitioard Place, Caltech, 1997.

Structural Engineers Association of Southern California Auxiliary Outstanding Student Award, 1997.

Summer Undergraduate Research Fellowship, Caltech, 1996.

**Professional Memberships** 



Co-organized the Vertically Distributed Nonstructural Connection (vNCS) Workshop, University of California, San Diego, July 18, 2018.

Coordinator of Conversation with Former Students and Contactors for EERI Oral History: Anil K. Chopra, 2018-2019.

Editorial Board Member for Earthquake Engineering and Structural Dynamics Appointment commencing July 2018.

Chaired the Overall Organizing Committee and Fundraising Committee for Retirement Symposium and Celebration of the Career of Anil K. Chopra, Oct. 2017. Oversaw all aspects of organization; emceed the main event.

Member of Center for Infrastructure Education and Transformation, 200146. A collaboration of faculty in civil engineering departments to share resources for teaching infrastructure, and develop a model infrastructure course. Led the development of a model lesson in engineering communication. Participated in summer workshops in 2014, 2015 and 2016.

Participant of Community Development of a Lasgonale Seismically Excited Building Testbed in conjunction with 2<sup>rd</sup> NHERI@UCSD 2<sup>rd</sup> User Training Workshop for the Large High Performance Outdoor Shake Table (LHPOST), Dec. 12-13, 2016.

Participant of DesignSafeci User Requirements Workshopbjective was toobtain requirements from the Natural Hazards Engineering research community **Destign**Safe cyberinfrastructure and facilitate collaboration among the expanded NHERI coTJ 0 Twnj3jdoor3 (t).

obstacles to seismic isolation and develop a plan to make such systematimactive to non-engineers

Co-organized NEES/EDefense Blind Analysis Contest for fulcale base isolation tests in 2011. I helped announce and advertise the contest, prepare the solution, and archive the solution on NEEShub.

Coordinated and moderated NEE SDE fense Isolation and Control Working Group, 2009-2011. Moderated group discussions during general planning meetings in 2009 and 2010. I organized a special meeting of the ICWC held in conjunction with the EERI Annual Meetingin 2011.

## Organized onference essions

Highlights of Recent U.S./Japan Collaborative NEEDÆ ense Projects, \*10U.S. National Conference on Earthquake Engineering, July 2014.

Highlights of Ongoing Activities of NEES TIPS Project, US National and Canadian Conference on Earthquake Engineering, July 2010.

Advances in Seismic Isolation Design Practice in the U.S. and Japanalysis and Computation Specialty Conference, ASCE Structures Congress, April 2008.

Performancebased Evaluation of SerAictive and Passive Control Systems,<sup>th</sup> 18 Analysis and Computation Specialty Conference, ASCE Structures Congress, April 2008.

Performancebased Evaluation of Passive Control Systems<sup>th</sup>, Ashalysis and Computation Specialty Conference, ASCE Structures Congress, April 2008.

Simplified Analysis, Design and Assessment Tools for **Basla**ted Buildings, ASCE Structures Congress, May 2007.

Peer revieweof journal and conference manuscriptsout 10 manuscripts per year to various journals.

NSF Review PanelServed on Seview panels for various programs within NSF.

Provided user feedback for the NEES NSF site visit held at NSF, August, 2012.

Contributed to development of open source analysis program (OpenSees) widely used by the earthquake engineering research community cent contribution includes a 3-dimensional element for a triple pendulum bearing with a general friction model.

## **Professional Development**

International Mass Timber Conference, Portland, OR, Mare 2013 2019.

The Third International Workshop to Promote Seismic Protective Systems for Civil Structures, PREEMPTIVE SAVI Workshop, Santiago, Chile, Jan 7-8, 2017.

RSNZ – JSPS Workshop on Evaluation of the Seismic Response of RC Buildings, Auckland, New Zealand, Sept.189, 2016

The Second International Workshop to Promote Seismic Protective Systems for Civil Structures, & PREEMPTIVE SAVI Workshop, Christchurch and Taupo, New Zealand, August 29 – Sept, 2016.