



Presentations

Based on PEER
Funded Research

Jack	Baker	R. Chandramohan., J. W. Baker, G. G. Deierlein. "Physical Mechanisms Underlying the Influence of Ground Motion Duration on Structural Collapse Capacity."
Yousef	Bozorgnia	S. Mazzoni, Y. Bozorgnia, N. Abrahamson. "Evaluation of The Shape of IEEE-693 Response Spectra for Subduction and Crustal Earthquakes" S.K. Ahdi, T.D. Ancheta, V. Contreras, T. Kishida, D.Y. Kwak, A.O. Kwok, G.A. Parker, Y. Bozorgnia, J.P. Stewart. "NGA-Subduction Site Database" S.K. Ahdi, T.D. Ancheta, V. Contreras. "NGA-Subduction Site Database" T. Kishida, Y. Bozorgnia, N. Abrahamson, S. Ahdi, T. Ancheta, D. Boore, K. Campbell, R. Daragh, H. Magistrale, J. Stewart. "Development of NGA-Subduction Database" Y. Bozorgnia, K. Campbell. "NGA-West2 Ground Motion Model For V/H Response Spectra"
Gabriel	Candia	Montalva, Ledezma, Rollins, "Geotechnical Observations from the 2014 Iquique Earthquake"
Joel	Conte	Y. Li, R. Astroza, J.P. Conte. "Investigation of Seismic Isolation for California High-Speed Rail Prototype Bridge in The Context of Probabilistic Performance-Based Optimum Seismic Design"
Gregory	Deierlein	R. Chandramohan, J. Baker, G. G. Deierlein. "Physical Mechanisms Underlying the Influence of Ground Motion Duration on Structural Collapse Capacity"
Gilberto	Mosqueda	A. Sarebanha., A. Schellenberg, M. Schoettler, G. Mosqueda, S. Mahin. "Hybrid Simulation of Full Scale Seismic Isolation Bearings Using the Caltrans SRMD Test Facility."
Jose	Restrepo	G. Guerrini, J. Restrepo. "Self-Centering, Low-Damage, Precast Post-Tensioned Columns for Accelerated Bridge Construction in Seismic Regions"
Andreas	Schellenberg	A. Sarebanha., A. Schellenberg, M. Schoettler, G. Mosqueda, S. Mahin. "Hybrid Simulation of Full Scale Seismic Isolation Bearings Using the Caltrans SRMD Test Facility." A. Schellenberg, B. Shao, S. Mahin, "Development of A Large-Scale 6DOF Hybrid Shake Table and Application to Testing Response Modification Devices for Tall Buildings"
Jonathan	Stewart	S.K. Ahdi, T.D. Ancheta, V. Contreras, T. Kishida, D.Y. Kwak, A.O. Kwok, G.A. Parker, Y. Bozorgnia, J.P. Stewart, "NGA-Subduction Site Database"
Shanshan	Wang	S. Wang, S. Mahin. "Seismic Retrofit of An Existing High-Rise Steel Moment Resisting Frame Using Supplemental Energy Dissipation Devices"
Farzin	Zareian	M. De Bortoli, F. Zareian, Y. Bozorgnia. "Magnitude and Distance Scaling of Engineering Demand Parameters of Moment-Resisting Frame Structures"



PEER's mission is to develop, validate, and disseminate performance-based engineering technologies for buildings and infrastructure networks subjected to earthquakes and other natural hazards, with the goal of achieving economic and community resilience.

Presentations & Posters

- Norman Abrahamson B. Shao, S. Mahin, N. Abrahamson. "Understanding and Design of Seismically Isolated Structure Using Hardening of Bearing"
C. A. Arteta, N. Abrahamson. "Conditional Scenario Spectra Methodology to Grade Ground Motion Modification Procedures" (POSTER)
M. Stirling, F. D. Pasqua, C. Madugo, N. Abrahamson. "Precarious Rock & Design Ground Motions from Research to Industry Application"
O. Ktenidou, N. Abrahamson, W. Silva, R. Darragh. "Estimation of Kappa (K) For Rock Sites in The NGA-East Database and Implications on Design Motions"
S. Mazzoni, N. Abrahamson. "Evaluation of Ground-Motion Selection & Modification Methods Usin Inelastic-Response Hazard Curves" (POSTER)
S. Mazzoni, Y. Bozorgnia, N. Abrahamson. "Evaluation of The Shape of IEEE-693 Response Spectra for Subduction and Crustal Earthquakes"
T. Kishida, Y. Bozorgnia, N. Abrahamson, S. Ahdi, T. Ancheta, D. Boore, K. Campbell, R. Darragh, H. Magistrale, J. Stewart. "Development of NGA-Subduction Database"
- Domniki Asimaki D. Asimaki, E. Thompson, S. Rajaura, S. Hough, P. Ampuero, S. Martin. "Source, Basin, And Site Effects i Strong Motion Record of the 2014 Gorkha Earthquake"
- Jack Baker J. Wu, J. W. Baker. "End-To-End Simulation and Analysis Framework for Efficient Seismic Retrofitting Water Systems."
A. Gupta, J. Baker. "Sensitivity of Induced Seismicity Risk to Source Characterization, Ground Motion Prediction, And Exposure"
G. Cremen, A. Gupta, J. W. Baker. "Evaluation of Ground Motion Intensities from Induced Earthquakes Using 'Did You Feel It?' Data"
- Andre Barbosa H. Yu, A. Levine, T. Van Oss, M. Mohammed, B. Moaveni, A. Barbosa, A. Stavridis. "System Identificatio and Modeling of an 18-Story Building in Nepal Using Post-Earthquake Ambient Vibration Data"
L. Miranda, A. Barbosa, J. Serra, L. Caldeira. "Parameter Sensitivity Analysis of The Manzari-Dafalias Model for Modelling the Cyclic Response of a Sand"
R. L. Wood, M. E. Mohammadi, M. Shakya, C.K. Kawan, A. Barbosa, M. Olsen. "Structural Damage Assessment of a Five-Tiered Pagoda Style Temple in Nepal" (POSTER)
- Tracy Becker A. Crowder, T. Becker. "Increased Substructure Flexibility on Column-Top Isolation Systems"
Y. Bao, T. Becker, H. Hamaguchi. "Failure of Double Friction Pendulum Bearing Under Pulse Excitations"
- Jeffre Berman A. Sen, C. Roeder, J. Berman, D. Lehman, K. Tsai, C. Li, A. Wu. "Seismic Performance of Chevron Braced Frames with Yielding Beams" (POSTER)
N. Marafi, J. Berman, M. Eberhard. " New Intensity Measure That Accounts for The Effects of Spectra Acceleration, Duration, And Spectral Shape"
- Yousef Bozorgnia M. De Bortoli, F. Zareian, Y. Bozorgnia. "Magnitude and Distance Scaling of Engineering Demand Parameters of Moment-Resisting Frame Structures"
S. Mahin, Y. Bozorgnia, G. Kang, E. Miranda, A. Whittaker. "Vitelmo V. Bertero - A Researcher, Educator and Mentor of The Highest Caliber"
- Scott Brandenburg A. Lemnitzer, S. J. Brandenburg, J. P. Stewart, R. Cappa, S. Yniesta. "Levees, Peat, Earthquakes - Rethinking Settlements of Organic Soils Under Cyclic Loading"
S. Brandenburg, J. Stewart, G. Mylonakis. "Seismic Earth Pressure Exerted on Rigid Walls by Vertically Heterogeneous Soil Using Winkler Method"
S. J. Brandenburg, E. Agapaki, G. Mylonakis, J. Stewart. "Seismic Earth Pressures Exerted on Rigid Walls by Vertically Heterogeneous Soil Using Winkler Method"

Presentations & Posters

- Jonathan Bray R. Luque, J. Bray. "Soil-Structure-Interaction (SSI) Analyses of Buildings Founded on Liquefiable Soils in Christchurch, New Zealand During the Canterbury Earthquake Sequence"
- Henry Burton D. Lallemand, A. Kiremidjian, H. Burton. "Uncertainty Analysis for More Efficient Incremental Dynamic Analysis of Buildings"
H. Burton, H. Kang. "Quantifying the Seismic Resilience of Residential Communities: A Case Study for The City of Los Angeles"
H. Burton. "Assessing the Aftershock Collapse Safety of Reinforced Concrete Frame Buildings with Infills (POSTER)"
- Gian Paolo Cimellaro A. Cardoni, G. P. Cimellaro. "Seismic Behavior of Reinforced Concrete Roofs on Masonry Buildings"
G. P. Cimellaro, M. Poori, D. M. Doost, S. Mahin. "Development of A Database for Indicators of Resilient and Sustainable Systems"
M. Domaneschi, L. Martinelli, G. P. Cimellaro, A. Zamani. "Immediate Seismic Resilience of Structural Systems"
O. Kammouh, A. Z. Noori, C. Renschler, G. P. Cimellaro. "Resilience Quantification of Communities Base on Peoples Framework"
P. Crupi, A. K. Agrawal, G. P. Cimellaro. "Modeling Interdependencies of Critical Infrastructures After Hurricane Sandy"
S. Marasco, G. P. Cimellaro. "A New Energetic-Based Ground Motion Selection and Modification Algorithm"
- Joel Conte J. Conte, T. Hutchinson, G. Mosqueda, E. Luco, J. Restrepo, B.n Shing, L. Van Den Einde. "Natural Hazard Engineering Research Infrastructure at UC San Diego Large High Performance Outdoor Shake Table Facility"
J. Restrepo, J. Conte, R. Dunham, D. Parker, J. Wiesner, P. Dechent. "Detailed Nonlinear FE Pushover Analysis of Alto Rio Building"
P. Zhang, J. Conte, J. Restrepo, J. Ou. "Detailed Nonlinear Modeling, Pushover and Time History Analyses of Alto Rio Building Using Beam-Truss Model"
- Cristian Cruz C. Cruz, E. Miranda. "A Critical Review of The Rayleigh Damping Model"
- Gregory Deierlein Bijelic, Lin, Deierlein, "Utilization of Cybershake Earthquake Simulations for Building Performance Assessment"
C. Acevedo, G. Deierlein, E. Miranda, B. Fell, S. Swensen, E. Jampole. "Development of A Unibody System to Improve the Seismic Performance of Lightweight Residential Wood Structures"
E. Jampole, G. Deierlein, E. Miranda, B. Fell, S. Swensen, C. Acevedo. "An Economic Sliding Isolation System for Light Frame Residential Structures"
L. Ceferino, A. Kiremidjian, G. Deierlein. "Framework of The Estimation of The Health Status of The Population During an Earthquake Emergency"
S. Swensen, G. Deierlein, E. Miranda, B. Fell, E. Jampole, C. Acevedo. "Performance-Based Seismic Assessment of a Wood-Frame House with Strength and Stiffness Enhancements"
- Mark Eberhard N. Marafi, J. Berman, M. Eberhard. "A New Intensity Measure That Accounts for the Effects of Spectral Acceleration, Duration, and Spectral Shape"
- Filip Filippou F. Filippou. "Earthquake Response Evaluation with A New Hysteretic Model"
- Selim Gunay K. Mosalam, S. Gunay. "Acceleration Response Spectrum: Revisited for Higher Mode Effects" (POSTER)
K. Mosalam, S. Gunay. "Performance-Based Seismic Evaluation of Structural Insulated Panels"
S. Takhirov, K. Mosalam, S. Gunay. "Performance of Fire Sprinkler Systems in the 2014 South Napa Earthquake: Numerical Modelling with Validation by Laser Scans of Aftermath" (POSTER)

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- Selim Gunay Y.Wang, K. M. Mosalam, S. Gunay, W. Lu. “Seismic Response Evaluation of Zonal Hanging Curtain Wall System Using Hybrid Simulation”
S. Takhirov, K. Mosalam, S. Gunay. “Performance of URM Buildings in the 2014 South Napa Earthquake: Numerical Analyses Correlated to Laser Scans of Aftermath”
- Pablo Heresi P. Heresi. E. Miranda. “Quantitative Evaluation of New Strategies to Increase Seismic Resilience of Cities: A Shift of Current Paradigms”
- Tara Hutchinson C.Trautner, T.Hutchinson. “Seismic Response of Mode Moment-Frame Steel Buildings with Ductile-Anchor Uplifting Baseplate Connections”
J. Conte, T. Hutchinson, G. Mosqueda, E. Luco, J. Restrepo, B. Shing, L. Van Den Einde. “Natural Hazard Engineering Research Infrastructure at UC San Diego Large High Performance Outdoor Shake Table Facility”
M.Phipps, S. Fathali, J. Gillengerten, T. Hutchinson, R. Medina, R. Bachman, M. Hoehler, S. Schiff, J. Heintz. “Future Development in The Seismic Analysis and Design of Nonstructural Components for Buildings”
T. Hutchinson, K. Clahan, J. Sun, F. Menq, E. Lo, W. J. Chang, C. Tsai. “Important Lessons from Field Reconnaissance Following The 2016 Meinong Earthquake in Southern Taiwan” (POSTER)
- Grace Kang S. Mahin, Y. Bozorgnia, G. Kang, E. Miranda, A. Whittaker. “Vitelmo V. Bertero - A Researcher, Educator and Mentor of The Highest Caliber”
- Amit Kanvinde A. Kanvinde, B. Younis, Q. Dahm, C. Galasso. “Fatigue Followed by Seismic Fracture in High-Rise Steel Moment Frames”
- Anne Kiremidjian D. Lallemand, A. Kiremidjian, H. Burton. “Uncertainty Analysis for More Efficient Incremental Dynamic Analysis of Buildings”
L. Ceferino, A. Kiremidjian, G. Deierlein. “Framework of The Estimation of The Health Status of The Population During an Earthquake Emergency”
Yizheng Liao, Konstantinos Balafas, Ram Rajagopal, Anne Kiremidjian, C.H. Loh. “Rapid Damage Detection from Strong Motion Acceleration and Rotation Response Measurements”
- Steve Kramer S. Kramer, M. Greenfield. “Effects of Long Duration Motions on Ground Movements
- Sashi Kunnath C. Magna-Verdugo, C. Aránguiz, S. Kunnath. “Simplified Approach to Modeling Nonlinear Behavior of Typical Chilean Reinforced Concrete Shear Walls”
- Dawn Lehman A. Sen, C. Roeder, J. Berman, D. Lehman, K. Tsai, C. Li, A. Wu. “Seismic Performance of Chevron Braced Frames with Yielding Beams” (POSTER)
A. Sen, M. Swatosh, D. Sloat, M. Johnson, R. Ballard, J. Berman, D. Lehman, C. Roeder. “Seismic Vulnerability and Rehabilitation of Older Concentrically Braced Frames”
L. Lowes, D. Lehman, Z. Whitman, K. Ahmed. “Investigation of RC Wall Failure Mechanisms Using Non-linear Continuum Analysis”
- Anne Lemnitzer A. Lemnitzer, S. J. Brandenberg, J. P. Stewart, R. Cappa, S. Yniesta. “Levees, Peat, Earthquakes - Rethinking Settlements of Organic Soils Under Cyclic Loading”
G. Anoyatis, G. Mylonakis, A. Lemnitzer. “An Analytical Model to Predict Soil Reaction Induced by Harmonically Loaded Piles”
S. Anacleto-Lupianez, L. Herrera, V. Slowika, A. Lemnitzer. “Large-Scale Testing Of FRP-Strengthened RC-SMRF T-Beams with Rectangular Web Openings”
- Dimitrios Lignos E. Miranda, L. Eads, H. Davalos, D. Lignos. “Assessment of The Probability of Collapse of Structures During Earthquakes”

Presentations & Posters

- Dimitrios Lignos Elkady, A., Lignos, D.G. "Full-Scale Cyclic Testing of Deep Slender Wide-Flange Steel Beam-Columns Under Unidirectional and Bidirectional Lateral Drift Demands" (POSTER)
- S. Hwang, D. Lignos. "Approximate Method for Performance-Based Seismic Assessment of Steel Moment-Resisting Frames"
- Y. Suzuki, D. Lignos. "Collapse Behavior of Steel Columns as Part of Steel Frame Buildings: Experiments and Numerical Models"
- Laura Lowes L. Lowes, D. Lehman, Z. Whitman, K. Ahmed. "Investigation of RC Wall Failure Mechanisms Using Nonlinear Continuum Analysis"
- Kevin Mackie H. Al-Jelawy, Z. Haber, K. Mackie. "Grouted Splice Precast Column Connections with Shifted Plastic Hinging"
- Stephen Mahin A. Sarebanha., A. Schellenberg, M. Schoettler, G. Mosqueda, S. Mahin. "Hybrid Simulation of Full Scale Seismic Isolation Bearings Using the Caltrans SRMD Test Facility"
- A. Schellenberg, B. Shao, S. Mahin, "Development of A Large-Scale 6DOF Hybrid Shake Table and Application to Testing Response Modification Devices for Tall Buildings"
- B. Shao, S. Mahin, N. Abrahamson. "Understanding and Design of Seismically Isolated Structure Using Hardening of Bearing"
- B. Shao, S. Mahin. "Investigate Multilevel Seismic Responses of Base Isolated Tall Building Using Triple Friction Pendulum Bearing"
- B. Simpson, S. Mahin. "Seismic Assessment of the "Strongback" System"
- D. Doost, M. Pourabdollahtookaboni, S. Mahin, G. P. Cimellaro. "Development of A Database for Indicators of Resilient Systems" (POSTER)
- G. P. Cimellaro, M. Poori, D. M. Doost, S. Mahin. "Development of A Database for Indicators of Resilient and Sustainable Systems"
- S. Mahin, Y. Bozorgnia, G. Kang, E. Miranda, A. Whittaker. "Vitelmo V. Bertero - A Researcher, Educator and Mentor of The Highest Caliber"
- S. Wang, S. Mahin. "Seismic Retrofit of An Existing High-Rise Steel Moment Resisting Frame Using Supplemental Energy Dissipation Devices"
- Silvia Mazzoni S. Mazzoni, N. Abrahamson. "Evaluation of Ground-Motion Selection & Modification Methods Using Inelastic-Response Hazard Curves" (POSTER)
- S. Mazzoni, Y. Bozorgnia, N. Abrahamson. "Evaluation of The Shape Of IEEE-693 Response Spectra for Subduction and Crustal Earthquakes"
- Frank McKenna A. Chopra, F. McKenna. "Modeling Viscous Damping in Nonlinear Response History Analysis of Buildings"
- Eduardo Miranda C. Acevedo, G. Deierlein, E. Miranda, B. Fell, S. Swensen, E. Jampole. "Development of A Unibody System to Improve the Seismic Performance of Lightweight Residential Wood Structures"
- C. Cruz, E. Miranda. "A Critical Review of The Rayleigh Damping Model, Proceedings" (POSTER)
- E. Jampole, G. Deierlein, E. Miranda, B. Fell, S. Swensen, C. Acevedo. "An Economic Sliding Isolation System for Light Frame Residential Structures"
- E. Miranda, L. Eads, H. Davalos And D. Lignos. "Assessment of The Probability of Collapse of Structures During Earthquakes"
- H. Davalos, E. Miranda. "Effect of Damping on Displacement Demands for Structures Subjected to Narrow Band Ground Motions"
- P. Heresi. E. Miranda. "Quantitative Evaluation of New Strategies to Increase Seismic Resilience of Cities: A Shift of Current Paradigms"

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S. Swensen, G. Deierlein, E. Miranda, B. Fell, E. Jampole, C. Acevedo. "Performance-Based Seismic Assessment of a Wood--Frame House with Strength and Stiffness Enhancements"
- Judith Mitrani-Reiser A. Poulos, S. Castro, J. C. De La Llera, J. Mitrani-Reiser. "Seismic Risk Assessment of Human Evacuation in Buildings" (POSTER)
J. Mitrani-Reiser, M. Mieler, K. O'Connor, H. Kumar, S. Shrestha, T. Kirsch. "Investigating Community Resilience in Gorkha, Nepal"
M. Mieler, J. Mitrani-Reiser. "Multi-Scale Earthquake Impacts: A Review of The State-Of-The-Art in Modeling Loss of Functionality in Buildings" (POSTER)
- Jack Moehle T. Visnjic, M. Panagiotou, J. Moehle. "Estimating Seismic Shear in Columns of RC Special Moment Frames"
A. Liel, W. Holmes, M. Mehraein, J. Moehle, P. Somers, T. Marcilla. "Simplified Seismic Evaluation of Olde Concrete Frames for Collapse Potential (ATC 78)"
C. A. Arteta, J. P. Moehle. "Sources of Lateral Instability and Deformation Limits of Boundary Elements of Special Structural Walls"
D. To, J. Moehle. "Performance of Beam with High-Strength Reinforcement"
P. Parra, J. Moehle. "Stability of Slender Wall Boundaries Under Non-Uniform Strain Profiles"
V. Akansel, J. Moehle. "Assessment of The Collapse Risk of Infill Walled Buildings"
V. H. Akansel, A. Yakut, J. Moehle. "Effect of Infill Walls on Structural Behavior of RC Buildings with Vertical Irregularities"
J. Hardisty, J. Moehle, S. Pujol, T. Paret. "Seismic Performance of a Structural Wall Building with Geometric and Reinforcement Discontinuities" (POSTER)
- Khalid Mosalam K. Mosalam, S. Gunay. "Acceleration Response Spectrum: Revisited for Higher Mode Effects" (POSTER)
K. Mosalam, S. Gunay. "Performance-Based Seismic Evaluation of Structural Insulated Panels"
M. Moustafa, K. Mosalam. "Online P-Delta Correction for Multi-Degree-Of-Freedom Hybrid Simulation Testing"
S. Takhirov, K. Mosalam, S. Gunay. "Performance of Fire Sprinkler Systems in the 2014 South Napa Earthquake: Numerical Modelling with Validation by Laser Scans of Aftermath" (POSTER)
X. Liang, K. M. Mosalam. "Evaluation of Ground Motion Selection and Modification Methods on Reinforce Concrete Highway Bridges"
X. Ren, W. Lu, K. M. Mosalam, W. Xu. "Dynamic Similitude of Reduced-Size Friction Pendulum System on Top of a Multi-Tower High-Rise Structure"
Y. Wang, K. M. Mosalam, S. Gunay, W. Lu. "Seismic Response Evaluation of Zonal Hanging Curtain Wall System Using Hybrid Simulation"
S. Takhirov, K. Mosalam, S. Gunay. "Performance of URM Buildings in the 2014 South Napa Earthquake: Numerical Analyses Correlated to Laser Scans of Aftermath"
N. Peralta, K. Mosalam. "Determination of homogenized nonlinear material parameters of masonry walls" (POSTER)
- Gilberto Mosqueda A. Sarebanha, G. Mosqueda, M. K. Kim, J. H. Kim. "Effects of Moat Wall Impact on The Seismic Response of Base Isolated Nuclear Power Plants" (POSTER)
J. Conte, T. Hutchinson, G. Mosqueda, E. Luco, J. Restrepo, B. Shing, L. Van Den Einde. "Natural Hazard Engineering Research Infrastructure at UC San Diego Large High Performance Outdoor Shake Table Facility"
M. Symans, S. Yang, G. Mosqueda, J. Karns, D. Lee. "Development of Compact Damper Framing Systems for Seismic Protection of Structures"

Presentations & Posters

- Farzad Naeim F. Naeim, L. Carpenter, T. Ghodsi, G. Hart, M. Lew, M. Mehrain, T. Sabol, J. Wallace. "The 2015 Los Angeles Alternative Procedure for Seismic Analysis and Design of Tall Buildings"
- Keith Porter K. Porter. "When Adding Epistemic Uncertainty to A Lognormal Fragility Function, How Should We Increase the Median?"
M. Isteita, K. Porter. "Safe Distance Between Adjacent Buildings to Avoid Pounding in Earthquakes" (POSTER)
- Jose Restrepo G. Guerrini, J. Restrepo, M. Schoettler. "Self-Centering, Low-Damage Precast Composite Steel-Concrete Columns of Accelerate Bridge Construction I Seismic Regions: Shake-Table Tests a Numerical Modeling"
G. Guerrini, J. Restrepo, M. Schoettler. "Self-Centering, Low-Damage Precast Composite Steel-Concrete Columns of Accelerate Bridge Construction In Seismic Regions: Shake-Table Tests a Numerical Modeling"
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- Luis Rojas L.Rojas, A. Kiremidjian, G. Deierlein. "Framework of The Estimation of The Health Status of The Population During an Earthquake Emergency"
- Andreas Schellenberg S. You, A. Schellenberg, "Test Rehearsal Methods for Quasi Static and Real-Time Hybrid Simulations"
- Matthew Schoettler G. Guerrini, J. Restrepo, M. Schoettler. "Self-Centering, Low-Damage Precast Composite Steel-Concrete Columns for Accelerate Bridge Construction I Seismic Regions: Shake-Table Tests a Numerical Modeling"
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- Barbara Simpson B. Simpson, S. Mahin. "Seismic Assessment of the "Strongback" System"
- Nicholas Sitar N.B. Wagner, N. Sitar. "Influence of The Depth of Embedment on Seismic Earth Pressures on Basement Walls"
- Jonathan Stewart A. Lemnitzer, S. J. Brandenburg, J. P. Stewart, R. Cappa, S. Yniesta. "Levees, Peat, Earthquakes - Rethinking Settlements of Organic Soils Under Cyclic Loading"
J. Stewart et al. "Engineering Reconnaissance Following the August 24, 2016 M6.0 Central Italy Earthquake"
S. Brandenburg, J. Stewart, G. Mylonakis. "Seismic Earth Pressure Exerted on Rigid Walls by Vertically Heterogeneous Soil Using Winkler Method"
S. J. Brandenburg, E. Agapaki, G. Mylonakis, J. P. Stewart. "Seismic Earth Pressures Exerted on Rigid Walls by Vertically Heterogeneous Soil Using Winkler Method"
T. Kishida, Y. Bozorgnia, N. Abrahamson, S. Ahdi, T. Ancheta, D. Boore, K. Campbell, R. Darragh, H. Magistrale, J. Stewart. "Development of NGA-Subduction Database"

Presentations & Posters

- Shakhzod Takhirov A. Gilani, S. Takhirov. "Evaluation of Seismic Performance of Suspended Ceiling Systems Using Dynamic Testing and Finite Element Analysis"
- S. Takhirov, A. Gilani, B. Quigley, L. Myagkova. "Assessment of Seismic Vulnerability of Historic Buildings Based on Their Current Condition Captured by Laser Scans and Retrofit Strategies" (POSTER)
- S. Takhirov, E. Fujisaki, L. Kempner, M. Riley. "Development of Time Histories for IEEE693 Testing/Analysis and Their Validation by Numerical Simulations and Full-Scale Testing of Seismically Isolate Equipment"
- S. Takhirov, K. Mosalam, S. Gunay. "Performance of Fire Sprinkler Systems in the 2014 South Napa Earthquake: Numerical Modelling with Validation by Laser Scans of Aftermath" (POSTER)
- S. Takhirov, K. Mosalam, S. Gunay. "Performance of URM Buildings in the 2014 South Napa Earthquake: Numerical Analyses Correlated to Laser Scans of Aftermath"
- Hong Kie Thio H. Thio, Y. Wei, G. Chock. "Development of Offshore Probabilistic Tsunami Exceedance Amplitudes for ASCE 7-16"
- Y. Wei, H. Thio, V. Titov, G. Chock, H Zhou, T Lang, C Moore. "Tsunami Inundation Modeling to Create 2,500-Year Return Period Tsunami Design Zone Maps for The ASCE 7-16 Standards"
- John Wallace C. Motter, J. Wallace. "Cyclic Testing of Reinforced Concrete Structural Walls with Ordinary Boundary Element Detailing"
- C. Segura, J. Wallace. "Brittle Compression Failures in ACI 318--14 Compliant RC Structural Walls with Well-Detailed Boundary Zones"
- F. Naeim, L. Carpenter, T. Ghodsi, G. Hart, M. Lew, M. Mehrain, T. Sabol, J. Wallace. "The 2015 Los Angeles Alternative Procedure for Seismic Analysis and Design of Tall Buildings"
- J. Wallace, S. Kim, C. Seguar. "Shear Design of RC Structural Walls"
- K. Beyer, S. Pampanin, A. Niroomandi, R. Constantin, M. Hube, J. Wallace. "Reinforced Concrete Wall Response Under Uni- And Bi-Directional Loading: Findings from Experimental Research and Future Research Needs"
- K. Kolozvari, K. Orakcal, J. Wallace. "New OpenSees Models for Simulation of Nonlinear Flexural and Shear-Flexural Interaction Behavior of Reinforced Concrete Walls and Columns"
- S. Gavridou, J. Wallace, T. Nagae, T. Matsumori. "Shake Table Testing and Analytical Modeling of a Full-Scale, Four-Story Unbonded Post-Tensioned Concrete Building"
- Andrew Whittaker B. Terranova, S. Epackachi, A. Whittaker. "Effect of Out-Of-Plane Loading on In-Plane Response of SC Wall Piers"
- S. Mahin, Y. Bozorgnia, G. Kang, E. Miranda, A. Whittaker. "Vitelmo V. Bertero - A Researcher, Educator and Mentor of The Highest Caliber"
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