
Bruce Kutter - Publications

Publications

Journals

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- 1987 B.L. Kutter. Earthquake Deformation of Centrifuge Model Banks. Journal of Geotechnical Engineering Division, ASCE, 113(1): 72-73.
- 1987 B.C. Davis, B.L. Kutter, and L. Chang. Development of Centrifuge Modeling for Evaluating the Mechanisms of Collapse of Underground Openings. Engineering Research Annual Report, Mechanical Engineering Department, Lawrence Livermore National Laboratory, 127-139.
- 1987 B.L. Kutter and C. Yogachandran. Bounding Surface Predictions of Dynamic Pore Pressures in a Soil Layer. Proceedings, 2nd International Conference on Constitutive Laws for Engineering Materials: Theory and Application, 605-613.
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- 1997 D.P. Stewart, B.L. Kutter, S. Higuchi, P.N. Robins, K.R. Narayanan, and D.J. Thompson . Centrifuge Modeling of the Seismic Response of LNG Production Facility Structures: Phase I. UCD/CGM-97/02.
- 1997 D.P. Stewart, R.R. Settgast, S. Higuchi, T. Kawai, B.L. Kutter, and I.M. Idriss. "Centrifuge Modeling of the Seismic Performance of Seawalls for Man-Made Islands". UCD/CGM-97/05.
- 1997 A. Balakrishnan, B.L. Kutter, and IM. Idriss. Liquefaction Remediation at Bridge Sites - Centrifuge Data Report for BAM01. UCD/CGMDR-97/01.
- 1997 D.W. Wilson, R.W. Boulanger, and B L. Kutter. Soil-Pile-Superstructure Interaction at Soft or Liquefiable Soil Sites - Centrifuge Data Report for Csp1. UCD/CGMDR-97/02.
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Alternative Media

- 2013 Bruce Kutter, Manouchehr Hakhamaneshi, Tara Hutchinson, Weian Liu: Rocking Foundations on Clayey Environment-MAH01, Network for Earthquake Engineering Simulation (distributor), Dataset, Network for Earthquake Engineering Simulation, DOI:10.4231/D3GT5FF2.
- 2013 Weian Liu, Manny Hakhamaneshi, Bruce Kutter, Tara Hutchinson: Testing of frame-wall systems with rocking foundations (second system test), Network for Earthquake Engineering Simulation (distributor), Dataset, Network for Earthquake Engineering Simulation, DOI:10.4231/D3NG4GR9.
- 2013 Henry Mason, Nick Trombetta, Stefanie Gille, Jonathan Lund, Joshua Zupan, Hamilton Puangnak, Benjamin Choy, ZhiQiang Chen, Chandrakanth Bolisetti, Jonathan Bray, Tara Hutchinson, Gregg Fiegel, Bruce Kutter, Andrew Whittaker: Test-1: Two Isolated Structures on Dense, Dry Sand, Network for Earthquake Engineering Simulation (distributor), Dataset, Network for Earthquake Engineering Simulation, DOI:10.4231/D3TX3562R.
- 2013 Henry Mason, Nick Trombetta, Chandrakanth Bolisetti, ZhiQiang Chen, Benjamin Choy, Jack Montgomery, Roshani Patel, Jonathan Bray, Gregg Fiegel, Tara Hutchinson, Bruce Kutter, Robert Reitherman, Andrew Whittaker: Test-2: Two Adjacent Structures on Dense, Dry Sand (in-Plane SSSI), Network for Earthquake Engineering Simulation (distributor), Dataset, Network for Earthquake Engineering Simulation, DOI:10.4231/D3Q52FC89.
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- 2013 Nick Trombetta, Joshua Zupan, Chandrakanth Bolisetti, Hamilton Puangnak, Katherine Jones, Jeannie Tran, Patrick Bassal, Jonathan Bray, Tara Hutchinson, Gregg Fiegel, Bruce Kutter, Andrew Whittaker: Test-4: Five Structures on Dense, Dry Sand (anti-Plane SSSI and iSSSI +aSSSI Superposition), Network for Earthquake Engineering Simulation (distributor), Dataset, Network for Earthquake Engineering Simulation, DOI:10.4231/D3FN10S0D.

- 2013 Joshua Zupan, Nick Trombetta, Hamilton Puangnak, D. Paez, Jonathan Bray, Bruce Kutter, Tara Hutchinson, Gregg Fiegel, Chandrakanth Bolisetti, Andrew Whittaker: Test-5: Seven Elastic Model Structures on a Layered, Saturated Soil Profile, Network for Earthquake Engineering Simulation (distributor), Dataset, Network for Earthquake Engineering Simulation, DOI:10.4231/D39W08Z6N.
- 2014 Manouchehr Hakhamaneshi, Bruce Kutter: Effect of footing shape on the deformation of rocking foundations, Network for Earthquake Engineering Simulation (distributor), Dataset, Network for Earthquake Engineering Simulation, DOI:10.4231/D3222R68V.
- 2014 Manny Hakhamaneshi, Bruce Kutter: Effect of footing shape on the deformation of rocking foundations-Phase 2, Network for Earthquake Engineering Simulation (distributor), Dataset, Network for Earthquake Engineering Simulation, DOI:10.4231/D3222R68V.
- 2014 Jacquelyn Allmond, Bruce Kutter: Centrifuge Testing of Rocking Foundations on Saturated and Submerged Sand, Network for Earthquake Engineering Simulation (distributor), Dataset, Network for Earthquake Engineering Simulation, DOI:10.4231/D3C53F17M.
- 2014 Jacquelyn Allmond, Bruce Kutter: JDA01: Centrifuge Testing of Rocking Foundations on Saturated and Submerged Sand, Network for Earthquake Engineering Simulation (distributor), Dataset, Network for Earthquake Engineering Simulation (distributor), DOI:10.4231/D37D2Q74Z.
- 2014 Connor Hayden, Jacquelyn Allmond, Isabelle Rawlings, Bruce Kutter, Jonathan Bray, Tara Hutchinson, Gregg Fiegel, Joshua Zupan, Andrew Whittaker: Test-6: Six Elastic Model Structures on a Layered, Saturated Soil Profile, Network for Earthquake Engineering Simulation (distributor), Dataset, Network for Earthquake Engineering Simulation, DOI:10.4231/D3QF8JJ99.
- 2014 Jacquelyn Allmond; Bruce Lloyd Kutter; Jonathan Bray; Connor Hayden: Foundation and Ground Performance in Liquefaction Experiments, Network for Earthquake Engineering Simulation (NEES) (distributor), Database, Network for Earthquake Engineering Simulation (NEES), DOI:10.4231/D3M61BQ73.

Presentations

- 1980 July, Deformation of Centrifuge Models of Clay Embankments Due to Bumpy Road Earthquakes, Presented at the International Conference on Soil Dynamics and Earthquake Engineering, Southampton .
- 1980 October, Centrifuge Modeling of the Effects of Earthquakes on Embankments, Presented to the Institution of Civil Engineers, Conference on Design of Dams to Resist Earthquake, London .

- 1982 May, Centrifuge Modeling and Theoretical Prediction of Deformations of Embankments During Earthquakes, Presented at Massachusetts Institute of Technology, Cambridge, MA. Also presented at a seminar at the U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, Mississippi .
- 1983 May, Geotechnical Centrifuges and Earthquake Simulator, Paper presented at the ASCE, Engineering Mechanics Division Specialty Conference on Recent Advances in Engineering Mechanics and Their Impact on Civil Engineering Practice, Purdue University.
- 1983 October, National Geotechnical Centrifuge and Simulation of Liquefaction on the Centrifuge, Lecture presented to the National Civil Engineering Laboratory, Port Hueneme, CA.
- 1984 February, National Geotechnical Centrifuge Safety Barrier Adequacy and Operations Planning, Lecture presented to National Science Foundation, NASA Ames Management.
- 1984 April, Status of the National Geotechnical Centrifuge, Presented at the International Conference on the Application of Centrifuge Modeling to Geotechnical Design, Manchester, England.
- 1984 June, Parallel Development of Physical and Analytical Models, Lecture presented to the Earth Technology Corporation, Long Beach, CA.
- 1984 July, NGC Facility and Trends in Cost of Centrifuges, Paper presented at the Symposium on Recent Advances in Geotechnical Centrifuge Modeling, Davis, CA.
- 1985 April, Model Tests for Design of a Centrifuge Safety Barrier, Presented at the Second Symposium on the Interaction of Non-Nuclear Munitions with Structures, Panama City Beach, Florida.
- 1985 April, Centrifuge Modeling of the Effect of Blast Loading on Tunnels, Presented at the Second Symposium on the Interaction of Non-Nuclear Munitions with Structures, Panama City Beach, Florida.
- 1985 May 26, Centrifuge Modeling of Flow Through and Deformation of Porous Media, Seminar presented to the Department of Mechanical Engineering, U.C.D..
- 1985 November 20, Centrifuge Modeling of Delta Levees, Invited lecture presented at Technical Workshop on Delta Levees, sponsored by State of California, Department of Water Resources, Central District, at Capital Plaza Holiday Inn, Sacramento, CA.
- 1986 November 26, Why Centrifuge Tests?, Invited lecture given to the Berkeley Geotechnical Society, U.C. Berkeley.

- 1987 January 5, Bounding Surface Predictions of Dynamic Pore Pressures in a Soil Layer, Paper presented at the Second International Conference on constitutive laws for engineering materials, Tucson, Arizona.
- 1988 April, Seismically Induced Flow Slide on the Centrifuge, Paper presented at the International Conference on Geotechnical Centrifuge Modeling, Paris.
- 1988 April, The Effects of Local Arching and Consolidation on Pore Pressure Measurements in Clay, Paper presented at the International Conference on Geotechnical Centrifuge Modeling, Paris.
- 1988 April, Modeling of Circular Foundations on Relatively Thin Clay Layers, Paper presented at the International Conference on Geotechnical Centrifuge Modeling, Paris.
- 1989 January, The Seismic Stability of Sound Walls on Mechanically-Stabilized Earth and Conventional Retaining Walls, Lecture presented to the Office of Structures, Caltrans, Sacramento, California.
- 1989 April, Centrifuge Modeling of the Seismic Response of Reinforced Soil and Cantilever Retaining Walls, Lecture presented at the Workshop on Dynamic Centrifuge Modeling in Earthquake Hazards Mitigation, Given at Caltech and at U.C. Davis.
- 1989 November, Observations of Damage Due to Retaining Structures and Liquefaction at Moss Landing during the October 1989 Loma Prieta Earthquake, Lecture to participants of VELACS project.
- 1990 February, Centrifuge Modeling of Soil-Pile-Structure Interaction, First Annual CURE meeting, San Francisco.
- 1990 February, Proposed and Existing Earthquake Simulators for Centrifuges at Davis, Workshop on Earthquake Simulation in Large Geotechnical Centrifuges, Boulder, Colorado.
- 1990 May, Centrifuge Modeling and Field Observations of Dynamic Behavior of Reinforce Soil and Concrete Cantilever Retaining Walls, Paper presented at the 4th U.S. Conference on Earthquake Engineering.
- 1990 May, Centrifuge Modeling of Effects of Earthquakes on Geotechnical Structures, Lecture presented for Tour of participants in U.S. Japan Bridge Engineering Workshop.
- 1991 June, Boundary Effects in Centrifuge Model Tests, International Conference on Centrifuge.
- 1992 January, 1991, Seminar presented to Department of Civil Engineering at Rensselaer Polytechnic Institute.

- 1992 January, Dynamic Centrifuge Modeling of Geotechnical Structures, TRB Annual Convention, Washington, D.C..
- 1992 July, Strain Rate Effects in Model Test of Dynamic and Consolidation Problems, Symposium on Geotechnical Modelling for Geotechnical and Earthquake Engineering Applications, Rensselaer Polytechnic Institute.
- 1993 Some Factors Affecting Cable Burial Tool Resistance, Presentation to Contract Monitors and Research Engineers from NCBC Port Hueneme, UC Davis.
- 1993 June, Liquefaction, Sand Boils and Lateral Sliding in Centrifuge Tests, US-Japan Workshop on Soil Liquefaction, Napa, CA.
- 1993 June, Liquefaction and Lateral Spreading in Centrifuge Tests Seminar, Georgia Institute of Technology.
- 1993 September, Design of an Earthquake Simulator for a Large Centrifuge, Nikken Sekkei (one of the largest geotechnical engineering consulting companies in Japan), Tokyo.
- 1993 September, Design of Earthquake Simulators and Modeling of Liquefaction in a Centrifuge, CRIEPI, Japanese Electric Power Research Institute, Tokyo.
- 1993 September, Particle Size Effects and Strain Rate Effects in Centrifuge Modeling, Department of Civil Engineering, Tokyo Institute of Technology.
- 1993 September, Centrifuge Modeling of Liquefaction and Lateral Sliding, International Seminar on Centrifuge Modeling, Ports and Harbours Research Institute, Japan.
- 1993 October, Overview of Predictions for VELACS models 7, 11, and 12, International Conf. on the Verification of Numerical Procedures for the Analysis of Soil Liquefaction Problems.
- 1994 January, Scaling Laws for Rate Dependent Shear and Consolidation of Clay, ASTM Symposium on Dynamic Geotechnical Testing II, San Francisco.
- 1994 April, Some Geotechnical Effects of the Northridge Earthquake, UC Davis Public Seminar on Effects of the Northridge Earthquake.
- 1994 May, Mechanics of Thin Blade Plow Resistance in Dense, Saturated, Cohesionless Soil, Presentation to Contract Monitors and Research Engineers from NCBC Port Hueneme, UC Davis.
- 1994 June, What Role Can Model Testing Play in Evaluating Consequences of Liquefaction and Remedial Measures?, Caltrans Third Annual Seismic Research Conference.

- 1994 September, Collapse of Cavities in Sand and Particle Size Effects, Centrifuge 94 Conference, Singapore.
- 1994 September, Triaxial and Torsional Hollow Cylinder Tests on Sand, Geomechanics Group, University of Western Australia.
- 1994 September, Near Full Scale and Centrifuge Modeling of Strength and Stiffness of Bridge Abutments, Department of Civil Engineering, Newcastle University, Newcastle, Australia.
- 1994 September, Near Full Scale and Centrifuge Modeling of Strength and Stiffness of Bridge Abutments, Center for Geotechnical Research, University of Sydney, Australia,.
- 1995 Uniformity of Specimen and Response of Liquefiable Sand Model in a Large Centrifuge Shaker, Sixth Japan-U.S. Workshop on Earthquake Resistant Design of Lifeline Facilities and Countermeasures against Soil Liquefaction, Tokyo, Japan.
- 1995 April, Recent Advances in Centrifuge Modeling of Seismic Shaking, State-of-the-Art Lecture, Third Int. Conf. on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, St. Louis, MO.
- 1995 October, Modeling Soil-Pile-Superstructure Interaction for Bridge Foundations, Session on Performance of Deep Foundations Under Seismic Loading, ASCE Convention, San Diego, CA.
- 1995 October, The Response of Piles During Earthquakes: Dynamic Soil-Pile-Superstructure Interaction, Session on Performance of Deep Foundations Under Seismic Loading, ASCE Convention, San Diego, CA.
- 1996 April, Modeling of Liquefaction Problems in a Large Centrifuge Shaker, UC Berkeley Geotechnical Society.
- 1996 October, Centrifuge Testing Exposes Problem with Linear Damping in Non-linear SSI Calculations, NSF Workshop on Application of Numerical Procedures in Geotechnical Earthquake Engineering, Davis, CA.
- 1997 July, Geotechnical Physical Modeling: Concepts, Facilities, and Data, State-of-the-Art Lecture at the 1st National Conference of the Geo-Institute, Logan UT.
- 1997 August, Networking Needs of an Experimental Facility, NSF-CSU Chico Internet Workshop.
- 1998 January, "Centrifuge Testing of Remediation of Liquefaction at Bridge Sites", Presentation at the TRB Conference in Washington DC.
- 1998 May, Opening Lecture at NHPS (NEES) Workshop at UC Davis.

- 1998 September, Centrifuge Modeling of Liquefaction Remediation, Workshop at University of Tokyo.
- 1998 September, Dynamic Model Test Data from Electronics to Knowledge, Keynote Lecture at ISSMGE Conference Centrifuge 98, Tokyo Japan.
- 1998 September, Geotechnical Centrifuge Model Testing Capabilities at UC Davis, Japan Nuclear Power Electric Company, Tokyo.
- 1998 October, Dynamic model testing (A) Data Visualization, and (B) Shear Resistance of Liquefied Soil, Lecture at 5th US Japan Workshop on Centrifuge Modeling at Public Works Research Institute.
- 1999 Report on the NHPS Workshop at UC Davis, EERI meeting in Seattle.
- 1999 February 10, Geotechnical Centrifuge Modeling in the Information Age, UC Berkeley Geotechnical Society.
- 1999 June, Visualization of Soil Behavior from Dynamic Centrifuge Model Tests, 2nd Int. Conf. on Earthquake Geotechnical Engineering, Lisbon, Portugal.
- 1999 August, Deliquefaction Shock Waves, 7th US Japan Workshop on Earthquake Resistant Design of Lifeline Facilities and Countermeasures Against Soil Liquefaction, MCEER, Seattle.
- 1999 October 13, Introductory Lecture on CUREe Sponsored Workshop on NEES Networking and System Integration, CURE Workshop on NEES, Richmond, CA.
- 2000 February 10, NSF Briefing on NEES System Integration, Invited Lecture at National Science Foundation, Washington, DC.
- 2000 March, Proposal to Establish CGM Geotechnical Centrifuge as a host facility for NEES to UCD faculty and graduate students at Welcome Weekend
- .
- 2000 April, Vision of geotechnical Centrifuge Research in NEES, Lecture to the Retirees group of the Bio and Ag Engineering Department, UC Davis.
- 2000 October, Liquefaction, Dilation and Deliquefaction, and Effects of Void Redistribution on Liquefaction and Lateral Spreading, 80 minute Lecture at Mini Workshop on Liquefaction at Chuo University.
- 2000 October, Deliquefaction Shock Waves and UC Davis Centrifuge Facility, Lecture at Obayashi Corporation.
- 2000 November 16, NEES Geotechnical Host Facilities, Lecture at NEESgrid earthquake research community workshop, Sponsored by U. Illinois and NCSA, held at USC-ISI .

- 2001 January 31, Keynote Lecture on Centrifuge Model Testing, ERDC Workshop.
- 2001 February 1, Data and Metadata for Geotechnical Physical Model Tests, ERDC workshop.
- 2001 February 22, Advanced Instrumentation for NEES, Awardees Meeting National Science Foundation.
- 2001 March, General Report on Session 9: Model and Full Scale Tests of Geotechnical Structures including Centrifuge Tests, 4th Int. Conf. on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics in Honor of Prof. W.D. Liam Finn, San Diego.
- 2001 May, Foundation Response: Buildings, Bridges, Ports, Presentation at the NSF Site Visit for Evaluation of the Pacific Earthquake Engineering (PEER) Center, University of California, Berkeley.
- 2001 June 28, Generation and reflection of deliquiefaction Shock Waves, Engineering Mechanics Conference, San Diego.
- 2001 July, Deliquiefaction Shock Waves and NEES Geotechnical Centrifuge, Seminar to Geotechnical Engineering Group at Georgia Tech.
- 2001 November 8, Metadata Structure for Geotechnical Physical Models, Case Western Reserve Workshop.
- 2001 December, NEES Geotechnical Centrifuges, Hong Kong Symposium.
- 2002 March 25, NEES Geotechnical Centrifuges, Presentation to Meeting I of Committee on Developing a Long-term Research Agenda for the Network for Earthquake Engineering Simulation (NEES), NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL.
- 2002 June, Deliquiefaction Shock Waves and NEES Geotechnical Centrifuge, Davis Seminar to Soil Mechanics Group at Cambridge University .
- 2002 June 21, NEES Data Model (tag team presentation with Joe Futrelle, J.P. Bardet, and J. Swift) NEES Awardees Meeting, San Diego Supercomputer Center
- .
- 2002 July, NEES Geotechnical Centrifuges Panel session on George E. Brown, Jr. Network for Earthquake Engineering Simulation (NEES): Use of Experimental Facilities in NEES Collaboratory Research, Presented at plenary session of EERI 7th National Confernece on Earthquake Engineering, Boston .
- 2002 July, Seismic MSE Wall Behavior: Centrifuge Tests and Analytical Studies, Seismic MSE Wall Behavior: Centrifuge Tests and Analytical Studies.

- 2002 July 12, NEES System Integration, Presented a lecture prepared by Kyran Mish at Int. Conf. On Physical Modeling in Geotechnics, St Johns, Canada.
- 2002 July 12, Metadata Structure for Geotechnical Physical Models, Int. Conf. On Physical Modeling in Geotechnics, St Johns, Canada.
- 2002 August 1, NEES Data Dictionary, NEES Equipment Sites Technical, Forum Video Conference.
- 2002 December, Interpretation and Visualization of Model Test Data for Slope Failure in Liquefying Soil, 8th U.S.-Japan Workshop on Earthquake Resistant Design of Lifeline Facilities and Countermeasures Against Soil Liquefaction, Tokyo.
- 2003 February, Interpretation and Visualization of Model Test Data for Slope Failure in Liquefying Soil, Seminar to Geotechnical Group at Georgia Tech.
- 2003 March, Interpretation and Visualization of Model Test Data for Slope Failure in Liquefying Soil, INL Geocentrifuge workshop, Idaho Falls.
- 2003 March, Introduction to Centrifuge Research, INL Geocentrifuge workshop, Idaho Falls.
- 2003 March 5, Applications: Earthquake Engineering and NEES, CITRIS Founding Corporate Members Meeting, UC Davis.
- 2003 March 5, Centrifuge Tests: Results and Interpretation, PEER Shallow Foundations Workshop, UC Davis .
- 2003 June, NEES Centrifuge Equipment to Investigate Mechanics of Liquefaction, U.S. Workshop on Testing, Modeling and Simulation in Geomechanics, Boston, Massachusetts.
- 2003 September 11, NEES Site Specifications Database, NEES Awardees Meeting, Oregon State University.
- 2003 October 20, Ground motions and Soil Foundation Structure Interaction for Van Nuys Building, PEER Van Nuys Test Bed Meeting.
- 2004 February, IM-EDP-DM (Intensity Measure – Engineering Demand Parameter – Damage Measure), PEER Annual Meeting.
- 2004 February, PEER Shallow Foundations Project, Summary for 2004 Annual Meeting, PEER Annual Meeting, Oakland, California.
- 2004 March, Update on NEES Site Specs Database, NSF NEES Awardees Annual Meeting, Rensselaer Polytechnic Institute.

- 2004 May 20, NEES Geotechnical Centrifuge, NEES Consortium 2nd Annual Meeting, San Diego.
- 2004 June, A New High-Performance, Submersible, Wireless Sensor Manager for the NEES Geotechnical Centrifuge, CITRIS sensors workshop.
- 2004 November, Scaling Laws and Scale Effects, NEES Centrifuge Research and Training Workshop.
- 2004 November, Test Plan, Data Processing and Data Reports, NEES Centrifuge Research and Training Workshop.
- 2004 November 15, nees@ucdavis: how does it work and what is it for?, NEES Geotechnical Centrifuge Grand Opening, Davis.
- 2005 January 25, "Needle Probe Application for High-Resolution Assessment of Soil Spatial Variability in the Centrifuge", Geofrontiers Conference, Austin Texas.
- 2005 January 26, Biaxial Shakers, Robotics, and Advanced Instrumentation for the NEES Geotechnical Centrifuge Facilities, Geofrontiers Conference, Austin Texas.
- 2005 March, Complexities Associated with Loading of Piles by Lateral Spreading Ground, International Workshop on Simulation and Seismic Performance of Pile Foundations in Liquefied and Laterally Spreading Ground, Davis, CA.
- 2005 May, Education Panel, NEES Annual meeting Minnesota.
- 2005 July 22, Principles of Centrifuge Testing and Some Equipment, International Research Training Group from State of Rheinland Pflaz, Germany, NEES Geotechnical Centrifuge Tour and Courses.
- 2005 July 22, De-liquefaction Shock Waves, International Research and Training Group short course, UC Davis.
- 2005 September 3, Physical and Numerical Modeling of Cyclic Moment-Rotation Behavior of Shallow Foundations, 6th Intl. Conf. Soil Mechanics and Geotechnical Engineering., Osaka, Japan.
- 2005 September 3, Geophysical Testing in the Geotechnical Centrifuge, Proc. 16th Intl. Conf. Soil Mechanics and Geotechnical Engineering., Osaka, Japan.
- 2005 October 3, Centrifuge Modeling of Geotechnical Earthquake Engineering Problems, PEER Undergraduate Scholars.
- 2005 November, Scaling Laws and Scale Effects, RPI Research and Training Workshop, Troy, NY.

- 2006 August, A New Electrode Switching System (ESS) For Measurement Of Movement Of Buried Objects, 6th International Conference on Physical Modeling in Geotechnics, Hong Kong.
- 2006 August, Phenomena Associated with Undrained and Partly Drained Dilatant Soil, 6th International Conference on Physical Modeling in Geotechnics, Hong Kong.
- 2006 October 18, Phenomena Associated with Undrained and Partly Drained Dilatant Soil, Lunchtime Seminar to the UC Davis Geotechnical Group.
- 2006 November, Scaling Laws and Scale Effects, RPI Research and Training Workshop, Davis, CA.
- 2006 December, Trends in Geotechnical Centrifuge Modeling with Focus on Earthquake Engineering, International Seminar on Geo-Centrifuge, Daejeon, Korea.
- 2007 June, Achievements in Data, 5th NEES Annual Meeting, Snowbird Utah.
- 2007 June, Centrifuge Modelling of Rocking Behavior of Bridges on Shallow Foundations, 4th Int. Conf on Earthquake Geotechnical Engineering, Thessaloniki.
- 2007 June, Nonlinear Wave Propagation and Trends at a Large-Scale Centrifuge Facility, 4th Int. Conf on Earthquake Geotechnical Engineering, Thessaloniki.
- 2007 August, Achievements in Data, Presentation to NSF review panel at the NEESit site visit, San Diego, CA.
- 2007 August, Faculty Panel for the Special Transitional Enrichment Program (STEP), 22, UC Davis.
- 2007 September 13, NEES Simulation Development Workshop: General Comments and some Specific Ideas, NEES Simulation Development Workshop.
- 2008 March, Centrifuge Modeling of Rocking of Shallow Foundations for Bridges, Proc. 5th Int. Conf. on Urban Earthquake Engineering, Tokyo Tech CUEE, Tokyo.
- 2008 May 19, Centrifuge Testing of the Seismic Performance of a Submerged Cut-and-Cover Tunnel in Liquefiable Soil, Keynote Lecture at 4th decennial Conf. on Geotechnical Earthquake Engineering and Soil Dynamics, Sacramento, CA.
- 2008 June 9, Behavior of Deck-column-rocking foundation system: Concepts and Model Test Results, Caltrans and PEER Seismic Research Seminar, Cal/EPA Auditorium, Sacramento.

- 2009 November, Performance of Bridge Systems with Nonlinear Soil-Footing-Structure Interactions, Workshop on Soil-Foundation-Structure Interaction, University of Auckland, New Zealand.
- 2010 March, Estimation of Displacement Demand for Seismic Design of Bridges with Rocking Shallow Foundations, Proc. 5th Intl. Conf. on Recent Advances in Geotech. Earthq. Engrg and Soil Dyn. San Diego, CA.
- 2010 July, Introduction to a New Design Procedure for Ordinary Bridges with Rocking Foundations, Ninth U.S. National and Tenth Canadian Conference on Earthquake Engineering, Toronto.
- 2010 July, Centrifuge Modeling of Bridge System with Rocking Footings, 7th International Conference on Physical Modelling in Geotechnics. Zurich, Switzerland.
- 2010 July, Seismic Triggering of Instability by Strain Softening and Localization in Clay, 7th International Conference on Physical Modelling in Geotechnics. Zurich, Switzerland.
- 2011 How to Convince Structural Engineers to Adopt Rocking Foundations, Cambridge University, September, 2010. Nottingham University, October, 2010. Dundee University, October, 2010. ETH, Zurich, November, 2010. UC Berkeley, January 2011 .
- 2012 February 2, Effects of Capillary Number, Bond Number, and Gas Solubility on Water Saturation of Sand Specimens, GGSS seminar, Civil and Environmental Engineering, UC Davis..
- 2012 March 26, Influence of Physical Modeling on Adoption of Rocking Foundations in Practice, GeoCongress 2012, Oakland, CA.
- 2012 September 5, Factors affecting degree of saturation obtained by infiltration of sand, Third International Workshop on Modern Trends in Geomechanics IW-MTG3, Nottingham, UK..
- 2012 December 13, Geotechnical Centrifuge Research: Examples of Past Successes, and Implications for Future Directions, International Symposium on Centrifuge Modeling, K-Water, Daejeon, South Korea.
- 2013 June 7, Introduction to basic concepts (Cr, Cy, stiffnesses, parallel and series systems, recentering vs dissipation, similarities and differences between hinging vs rocking, evolution of Cossy project), Workshop on design, analysis, and research related to highly nonlinear SSI including rocking foundations, at URS in Oakland, CA .
- 2013 October 25, Convincing the profession to adopt rocking foundations, DARE final workshop, NTUA, Athens.

- 2014 March 13, Convincing the profession to adopt rocking foundations, ASCE SEI Orange County Branch.
- 2014 May 7, "Center for Geotechnical Modeling at UC Davis", Geotechnical Engineers at from several oil companies met with us at Chevron in Houston. Joint presentation with Dan Wilson.
- 2014 July 23, "Impacts of geotechnical research in the areas of numerical simulation, experimental techniques and findings, and engineering practice # experimental investigation at NEES", National Conference on Earthquake Engineering in Anchorage, Alaska.
- 2014 July 24, Assessment of potential for interaction between vibrating surface footings., National Conference on Earthquake Engineering in Anchorage, Alaska..
- 2014 September 17, Proposed Outline for LEAP Verification and Validation Processes, 4th GEDMAR Conference, Kyoto, Japan.
- 2014 September 23, Centrifuge modeling of nonlinear seismic rocking behavior of shallow foundations for buildings and bridges, Zhejiang University, Hongzhou, China.

Publications: Additional Information

Reports