

Curriculum Vitae`

Scott A. Ashford
Professor and Head

School of Civil and Construction Engineering
Oregon State University
220 Owen Hall, Corvallis OR 97331

Telephone: 541-737-4934
Fax: 541-737-3052
E-mail: scott.ashford@oregonstate.edu

RESEARCH INTERESTS

Enhance public safety and reduce potential economic loss worldwide from earthquake and coastal hazards through cross-disciplinary research in earthquake and coastal engineering, focusing on full-scale modeling of soil-foundation-structure interaction, seismic site response, coastal erosion, and slope stability.

EDUCATION

B.S. Oregon State University, 1983 (Civil Engineering)
M.S. University of California, Berkeley, 1986 (Geotechnical Engineering)
Ph.D. University of California, Berkeley, 1994 (Geotechnical Engineering)

REGISTRATION

P.E. State of California, 1987 (Civil Engineer No. C41723)

PROFESSIONAL EXPERIENCE

2007-present: Professor and Head, Oregon State University, Corvallis
2006-2007: Professor, University of California, San Diego
2002-2006: Associate Professor, University of California, San Diego
1996-2002: Assistant Professor, University of California, San Diego
1994-1996: Assistant Professor, Asian Institute of Technology, Bangkok, Thailand
1990-1994: Graduate Student Researcher, University of California at Berkeley
1986-1991: Project Engineer, CH₂M HILL, Emeryville, California
1983-1985: Geotechnical Engineer, McClelland Engineers, Houston, Texas

HONORS, AWARDS, AND PROFESSIONAL RECOGNITION

Port of Long Beach Security Command and Control Center, Medium Project Award
Winner, California Geotechnical Engineers Association, 2007-2008
Faculty Representative, Transportation Research Board, 2000-2007
Outstanding Early Career Engineer, College of Engineering, OSU, 1998
Oliver Merwin Memorial Scholarship, University of California at Berkeley, 1985
Otto Herman Memorial Scholarship, Oregon State University, 1982
Tau Beta Pi National Engineering Honor Society, Oregon State University, 1981.

CONSULTING ACTIVITIES

- Technical Advisor, Seismic Hazards Evaluation for Kaeng Sua Ten Dam Project, Thailand, for Woodward-Clyde Federal Services, Oakland, California
- Technical Advisor, Sri Lanka Landslide Hazard Mitigation Project, Colombo, for Asian Disaster Preparedness Center, Bangkok, Thailand
- Peer Reviewer, Preliminary Design of I5/I805 Improvement Project, for California Department of Transportation
- Peer Reviewer, Del Mar Bluff Geotechnical Study, for North County Transit District, Oceanside, California
- Technical Advisory Panel Member, Seismic Design of Route 30 Improvement Project, San Bernardino Associated Governments
- Co-Founder and CFO, Ashford Engineering Incorporated
- Consultant, Port of Long Beach Expansion, Diaz-Yourman & Associates, Long Beach, CA
- Consultant, West City Center School Project, Geotechnics, San Diego, CA

PROFESSIONAL ACTIVITIES

Memberships

- American Society of Civil Engineers (ASCE)
 - Geo-Institute
 - Coasts, Oceans, Ports, and Rivers Institute
- Earthquake Engineering Research Institute (EERI)
- Network for Earthquake Engineering Simulation (NEES)
- Seismological Society of America (SSA)

Committees

- American Society of Civil Engineers, Continuing Education Committee, 1986-1989
- Earthquake Engineering Research Institute, Traditional Education Committee, 1992-1996
- Engineering Institute of Thailand, Committee on Wind and Earthquake Effects, 1995-1996
- Pacific Earthquake Engineering Research Center
 - Education Committee, 1998 – Present
- Chair, K-12 Outreach Subcommittee, 1998-1999
- Chair, Special Projects Subcommittee, 1999 – 2000
- Session Chair, Planning Committee, EERI Annual Meeting – 1999
- Transportation Research Board, University Representative, 2000 - Present
- Planning Committee, American Seismological Society Annual Meeting - 2000
- American Society of Civil Engineering/TCLEE, Ports and Harbors Lifeline Committee, 2004 - Present
- International Society for Soil Mechanics and Geotechnical Engineering TC-4, Earthquake Geotechnical Engineering, 2004-Present

- Earthquake Engineering Research Institute, Learning from Earthquakes Advisory Committee, 2005 - Present
- American Society of Civil Engineers, Standards Committee on Seismic Design of Piers and Wharves, 2005-Present
- American Society of Civil Engineers/COPRI, Ports and Harbors Committee, 2005 - Present

Journal, Manuscript, and Proposal Review

- American Society of Civil Engineers, Journal of Geotechnical and Geoenvironmental Engineering
- National Science Foundation, Earthquake Hazard Mitigation Program Proposals
- United States Geological Survey, National Earthquake Hazard Reduction Program Proposals
- American Society of Civil Engineers, Journal of Structural Engineering
- National Science Foundation, Geomechanics Program Proposals
- Southeast Asian Geotechnical Society, Geotechnical Engineering Journal
- Oregon Sea Grant Science Panel Member
- National Sea Grant College Program
- SEGAS Geotechnical Engineering Journal
- MCEER Seismic Retrofitting Manuals for Highway Systems
- Earthquake Engineering Research Institute, Spectra Journal

UNIVERSITY SERVICE

Department of Structural Engineering

- Chair, White Paper Committee on International Masters Program, 1996 - 1997
- Member, Graduate Affairs Committee, 1998 – 2000, 2004-present
- Chair, Graduate Affairs Committee, 1999 – 2000, 2004-2005
- Chair, Undergraduate Laboratory Committee, 1998 – 1999
- Member, Undergraduate Laboratory Committee, 1999 – present
- Member, Student Organization Committee, 1999 – present
- Member, Undergraduate Affairs Committee, 2001 – 2005
- Chair, Undergraduate Affairs Committee, 2001-2002
- Chair, Faculty Search Committee, Marine Coastal Position, 2002-2004

Jacobs School of Engineering

- Chair, K-14 Outreach Committee, 2003-2004
- Member Engineering Courtyard Food Service Selection Committee , 2004-2005

Eleanor Roosevelt College

- Executive Committee, 2000 – 2005

Academic Senate

- Academic Dishonesty Hearing Board - Alternate Member, 2003-2004
- Academic Dishonesty Hearing Board - Standing Member, 2004-2005
- UCSD-TV Faculty Advisory Committee, 1998 – present
- Minority Access to Science, Engineering, and Math (MASEM) Advisory Board, 2000 - 2005

University of California, San Diego

- Ad-Hoc Committee for Review of Provost, 2003-2004
- Instructional Improvement Program Selection Committee, 2004-2006
- Committee for Education Policy, 2005-present
 - Chair, 2006-2007
- Senate Administration Council, 2006-present
- Senate Council, 2006-present
- Enrollment Planning Committee, 2006-present

CONTRACTS AND GRANTS

\$10,000 – “Amplification of Earthquake Ground Motions in Bangkok,” Royal Thai Government, 1995 – 1997.

\$1,000 – “Kobe Earthquake Reconnaissance,” Pathum Thani Concrete Company, 1995.

\$14,000 – “Solid Waste Management for Environmental Sustainability,” The Netherlands Government, 1996 – 1999, (Co-PI with C. Visvanathan).

\$15,000 – “Earthquake Induced Loss of Lifeline Facilities in Southeast Asia Risks, Socio-Economic Impacts, and Mitigation,” UC Pacific Rim Project, 1997 – 1998.

\$458,800 – “Effect of Pile Diameter on Modulus of Subgrade Reaction,” California Department of Transportation (Co-PI with M.J.N. Priestley and F. Seible), 1997 - 2001.

\$365,300 – “Shake Table Testing of Pile-supported Twin-Column Bents,” California Department of Transportation (Co-PI with M.J.N. Priestley and F. Seible), 1997 - 2001.

\$175,000 – “Pilot Liquefaction Study,” California Department of Transportation, 1998.

\$30,000 – “Supplemental Field Laboratory Development,” Alaska Department of Transportation and Public Resources, 1998.

\$75,000 – “Effect of Large Velocity Pulses on Bridge Columns,” Pacific Earthquake Engineering Research Center/National Science Foundation, 1998 – 1999.

\$425,000 – “Behavior of Laterally Loaded Deep Foundations in Liquefied Sand,” Federal Highways Administration Pooled Funds (Caltrans-Lead Agency, Missouri DOT, New York DOT, Oregon DOT, Utah DOT, and Washington State DOT) 1998 - 2001.

\$1,700 – Donation from Royal Thai Government for General Support of Research on Dynamic Response of Soft Bangkok Clay. 1998.

\$18,460 – Donation from Hayward Baker, Inc., for General Support of the Treasure Island Liquefaction Test, 1999.

\$160,000 – “Performance of Bridge Components Subjected to a Large Velocity Pulse,” PEER/NSF, 1999 - 2001.

\$119,000 – “Substation Equipment Interaction – Rigid and Flexible Conductor Studies,” 1998 – 1999, (Co-PI with A. Filiatrault, A. Elgamal, and F. Seible).

\$25,000 – “Characterization of Ground Motions from Special Source Zones,” PEER/NSF, 1998, (Co-PI with A. Elgamal).

\$115,000 – “Ravenal Bridge Load Testing Program,” South Carolina DOT, 2000.

\$50,000 – “Powell Faculty Fellowship,” Powell Foundation, 2000-2002.

\$168,229 – “Mitigation of Coastal Bluff Instability in San Diego County,” California Sea Grant, 2001 – 2004.

\$1,700 – Donation from Royal Thai Government for General Support of Research on Dynamic Response of Soft Bangkok Clay, 2001.

\$60,000 – “Assessment/Completion of the NEES Experimental Infrastructure,” NSF, 2001, (Co-PI with F. Seible, A. Filiatrault, and A. Elgamal).

\$359,724 – “Performance of Lifelines Subjected to Lateral Spreading: Full-Scale Field Experiment,” California Energy Commission, Caltrans, and Pacific Gas & Electric through PEER Lifelines Program, 2001-2002.

\$515,000 – “Axial and Lateral Behavior of Full-Scale CIDH Piles in Soft Clay and Liquefied Sand,” Caltrans, 2001-2003.

\$39,846 – “Full-Scale Testing at Port of Long Beach,” National Sea Grant, 2001-2003.

\$3,514 - General Support of Research on Dynamic Response of Soft Bangkok Clay, Donation from Royal Thai Government, 2001.

\$14,814 - Tri-Center Field Study, PEER/NSF, 2002-2003

\$75,000 - Seismic Performance of Port Facilities: Full-Scale Testing at Port of Long Beach, California, 2002-2003

\$324,938 - Rapidly Deployable Composite Bridge Project, Office of Naval Research, 2002-2003 (Co-PI with John Kosmatka).

\$169,500 - PEER Summer Internship Program, PEER/NSF, 2002-2003

\$170,029 - PEER Education and Operations - Year 5,6, PEER/NSF, 2002-2003

\$161,880 - PEER Engineering Scholar's Course (EESC), PEER/NSF, 2002-2003

- \$51,301** - PEER Student Leadership Council, PEER/NSF, 2002-2003
- \$75,600** - PEER Graduate Fellowships, PEER/NSF, 2002-2003
- \$3,000** - Tri-Center Ph.D. Exchange, PEER/NSF, 2002-2003
- \$114,803** - Research Experience for Undergraduates Program (REU), NSF, 2002-2003
- \$2,000** - Business and Industrial Partners Fellowship Program, PEER/NSF, 2002-2003
- \$5,890,000** - NEES: Large High Performance Outdoor Shake Table, NSF, 2002-2004, Co-investigator (PI - Jose Restrepo)
- \$150,000** - PEER Research Experience for Teachers, NSF, 2002-2004
- \$1,375,000** - Response Assessment of Bridge Systems, Caltrans, 2002-2005
- \$1,125,000** - Large Diameter Piles and Pile Systems, Caltrans, 2002-2005
- \$192,000** - Performance of Lifelines Subjected to Lateral Spreading, PEER, 2002-2005
- \$115,850** - PEER Education Operations - Year 7, PEER/NSF, 2003-2004
- \$203,900** - PEER Education Student Programs - Year 7, PEER/NSF, 2003-2004
- \$53,700** - Research Education Undergraduates (REU), NSF, 2003-2004
- \$100,000** - Performance of PierG Seismic Fuse, Port of Long Beach, 2004-2005
- \$105,402** - Load Capacity, Failure Mode, and Design Criteria of Sand Jacks, Caltrans, 2004-2005
- \$121,642** - PEER Education Operations - Year 8, PEER/NSF, 2004-2005
- \$224,830** - PEER Education Student Programs - Year 8, PEER/NSF, 2004-2005
- \$51,500** - Research Experience for Undergraduates (REU), NSF, 2004-2005
- \$276,000** - Data Acquisition System and Instrumentation for NEES LHPOST, NSF, 2004-2005, Co-Principal Investigator (PI - Jose Restrepo)
- \$420,000** - Coastal Bluff Erosion: Causes, Mechanisms, and Implications for Coastal Protection and Restoration, UC Office of the President, 2004-2006
- \$390,892** - Development of Reliable Methods to Analyze Batter Piles and Piles in Sloping Ground, Caltrans, 2006-2009

\$206,879 – Relationship between Bluff Erosion and Beach Sand Supply in the Oceanside Littoral Cell, California Sea Grant, 2006-2008

\$59,930 – Structural Capacity Confirmation Testing of the Modular Hybrid Pier Test Bed, BERGER/ABAM and US Navy, 2006

LECTURES, SEMINARS, PRESENTATIONS

<u>Date</u>	<u>Topic</u>
7/18/94	“Seismic Considerations in Slope Stability Analyses,” lecture for Short Course on Slope Failures and their Remedial Measures, Southeast Asian Geotechnical Society (SEAGS), Bangkok, Thailand, July 18-22, 1994.
9/12/94	“Use of Geosynthetics in Waste Disposal,” lecture for Short Course on Geotextiles, Geomembranes and other Geosynthetics in Ground Improvement, for SEAGS, Bangkok, Thailand, September 12-16, 1994.
9/28/94	“Sanitary Landfills and Site Selection: An Overview,” lecture at Workshop on New Solutions for Sustainable Development of Solid Waste Disposal, Chiang Mai, Thailand.
10/20/94	Organized and presented One-Day Training Program on Siting and Design of Municipal and Hazardous Waste Landfills in Hanoi, Vietnam.
10/21/94	“Site Selection for Hazardous Waste Landfills: An Overview.” Workshop on Hazardous Waste Management Strategies for Vietnam, Centre for Environmental Science and Technology, University of Hanoi, Vietnam, October 20-22, 1994.
2/03/95	“Geotechnical Aspects of 1995 Kobe Earthquake,” National Press Conference, Asian Institute of Technology, Bangkok, Thailand.
5/8/95	“Two Dimensional Seismic Site Response.”, Geotechnical Aspects of Earthquake Engineering, Pile Dynamics, and Machine Foundations, SEAGS and AIT, Bangkok, Thailand, May 8-12, 1995.
7/19/95	Organized and lectured for the First Workshop on the Seismic Design of Structures, Engineering Institute of Thailand, Bangkok, July 19-21, 1995.
8/28/95	Course Director and lecturer for Short Course on Geomembrane Systems in Engineering Projects, Asian Institute of Technology, Bangkok, Thailand, August 28 – September 1, 1995.
11/14/95	“Seismic Response of Steep Slopes,” lecture at Central Research Institute of the Electric Power Industry, Abiko, Japan.

- 9/17/96 "MSW Landfill Liner Design in Southeast Asia," invited lecture at University of California at Berkeley, Geotechnical Society, Berkeley, California.
- 11/5/96 "Review of Current Practice of MSW Landfill Liner Design in Thailand," presented paper at Second International Congress on Environmental Geotechnics, Osaka, Japan, November 5-8, 1996.
- 11/9/96 "Two Dimensional Seismic Site Response Analysis," invited lecture at Department of Civil Engineering, Tohoku University, Sendai, Japan.
- 2/14/97 "Seismic Design of Pile Foundations," invited lecture at Second Workshop on Seismic Design of Structures sponsored by Engineering Institute of Thailand, Bangkok, February 14-15, 1997.
- 3/23/97 Lecture on Earthquakes at Carlsbad High School, Carlsbad, California.
- 6/20/97 "Academic Expectations," Eleanor Roosevelt College Orientation, UCSD, La Jolla, CA.
- 6/24/98 "Academic Expectations," Eleanor Roosevelt College Orientation, UCSD, La Jolla, CA.
- 9/14/98 "Geotechnical Engineering Research at UCSD," San Diego Chapter of ASCE, San Diego, CA.
- 2/3/99 "Preliminary Results from the TILT Project," University of California, at Berkeley, Geotechnical Society, Berkeley, CA.
- 3/20/99 "Preliminary Results from the TILT Project," Central Research Institute for the Electric Power Industry, Abiko, Japan.
- 3/23/99 "Preliminary Results from the TILT Project," invited lecture at Ports and Harbors Research Institute, Yokosuka, Japan.
- 3/26/99 "Preliminary Results from the TILT Project," Philippines Institute of Volcanology and Seismology, Manila, Philippines.
- 3/30/99 "Preliminary Results from the TILT Project," Asian Institute of Technology, Pathum Thani, Thailand.
- 3/31/99 "Preliminary Results from the TILT Project," invited lecture by Earthquake and Vibrations, Chulalong University, Bangkok, Thailand.
- 5/12/99 "Geotechnical Engineering Research at UCSD," ASCE Student Chapter, UCSD, La Jolla, CA.

- 5/19/99 "Treasure Island Liquefaction Test: Stone Columns," Hayward Baker Ground Improvements Seminar, San Diego, CA.
- 1/8/00 "Liquefaction Mitigation using Stone Columns around Deep Foundations: Full-Scale Test Results," Lecture at Transportation Research Board Annual Meeting, Washington DC.
- 10/17/00 "Behavior of Deep Foundations in Liquefied Soil," University of Canterbury, Christchurch, New Zealand
- 2/28/01 "P-Y Curves for Liquefied Sand," San Diego Chapter of ASCE, San Diego, CA.
- 3/16/01 "Careers in Engineering," Flora Vista Primary School, Encinitas, CA.
- 5/24/01 "Development of P-Y Curves for Liquefied Sand," Dept. of Civil and Environmental Engineering Seminar, University of Washington, Seattle.
- 5/24/01 "TILT: The Treasure Island Liquefaction Test," Seattle Chapter of ASCE, Seattle, WA.
- 6/06/01 "Geotechnical Engineering Research at UCSD," San Diego Chapter of ASCE, San Diego, CA.
- 2002 "Structural Engineering," Presentation for University of California, San Diego Admissions Day
- 9/5/02 "Performance of Lifelines Subjected to Lateral Spreading," Presentation at PEER Lifelines Liquefaction in Research Group Meeting, Berkeley, CA
- 10/9/02 "Performance of Lifelines Subjected to Lateral Spreading," Presentation at PRC-US Workshop on Seismic Design of Special Bridges, Shanghai, People's Republic of China
- 10/17/02 "Large High-Performance Shake Table at the Field Station at Camp Elliott," Presentation at the Jacobs School Corporate Affiliates Board Meeting, University of California, San Diego, La Jolla, CA.
- 12/17/02 "Performance of Lifelines Subjected to Lateral Spreading," Presentation at 8th UC-Japan Workshop on Earthquake Resistant Design of Lifeline Facilities and Counter Measures against Liquefaction, Tokyo, Japan
- 5/19/03 "PEER Education Program," Presentation at the National Science Foundation Site Visit, Berkeley, California

- 2/28/03 "Responses of Piles and Pipelines Subjected to Lateral Spreading," Presentation at US-Japan Symposium on Seismic Performance of Urban, Reclaimed and Port Areas: Full-Scale Experiment at Tokachi Port, La Jolla, CA
- 4/5/03 "New Initiatives in Structural Engineering," Presented at the Jacobs School Retreat, Temecula, CA
- 5/13/03 "Pier 3 Testing at the Port of Long Beach," Presentation for the State Lands Commission, Long Beach, CA
- 6/4/03 "P-Y Curves for Liquefied Sand," San Diego Chapter of the American Society of Civil Engineers
- 8/1/03 "Pier 3 Testing Program," Presentation at the Port of Long Beach
- 8/6/03 "The Pacific Earthquake Engineering Research Center," Presentation at the Tri-Center Research Experience for Undergraduates Symposium, Bend, OR
- 10/17/03 "Camp Elliot Research Concepts," Presentation at the Camp Elliot Board of Directors Meeting, UCSD
- 11/20/03 "Composite Culverts," Presentation to the Office of Naval Research, UCSD
- 1/5/04 "Shear Transfer Mechanisms for CISS Piles," Invited Lecture at the Chulalongkorn University, Bangkok, Thailand
- 1/6/04 "Shear Transfer Mechanisms for CISS Piles," Invited Lecture at the Asian Institute of Technology, Bangkok, Thailand
- 1/12/04 "PEER Education Program," PEER Institutional Board Meeting, Berkeley, CA
- 5/12/04 "PEER Education Program," Presentation at NSF Site Visit, Berkeley, CA
- 5/24/04 "Being a Mentor," Presentation at California Alliance for Minority Participation, UCSD
- 6/8/04 "Mitigation of Coastal Bluff Instability in Northern San Diego County," Presentation at the California Coastal Commission, San Francisco, CA
- 7/17/04 "The Pacific Earthquake Engineering Research Center," Presentation Waseda University, Tokyo, Japan

- 8/4/04 "EERI Reconnaissance of the 2003 Tokachi-oki Earthquake," Presentation at the 13th World Conference on Earthquake Engineering, Vancouver, Canada
- 8/4/04 "Analysis of Pile Response based on Full-Scale Lateral Spreading Test," Presentation at 13th World Conference on Earthquake Engineering, Vancouver, Canada
- 9/15/04 "Full-Scale Lateral Load Testing of Pier 3 at the Port of Long Beach," Presentation at Prevention First, Long Beach, CA
- 9/23/04 "Welcome to UCSD's Department of Structural Engineering," Presentation at Graduate Student Orientation, UCSD
- 10/8/04 "Introduction to Geotechnical Earthquake Engineering," PEER Earthquake Engineering Scholars Course, UCSD
- 11/9/04 "The Lighter Side of Engineering," Jacobs School Staff Retreat, UCSD
- 11/19/04 "Achieving Diversity at the EERC's," NSF Engineering Research Center Annual Meeting, Washington, D.C.
- 12/14/04 "EERI Reconnaissance of the 2004 Niigata-Chuetsu Earthquake," Pacific Gas and Electric, San Francisco, CA
- 12/16/04 "EERI Reconnaissance of the 2004 Niigata-Chuetsu Earthquake," California Institute of Technology, Pasadena, CA
- 1/19/05 "EERI Reconnaissance of the 2004 Niigata-Chuetsu Earthquake," GEOCON, San Diego, CA
- 3/16/05 "Analysis of Piles in Laterally Spreading Ground," Workshop on Numerical Modeling of Piles Subjected to Liquefaction and Lateral Spreading, Davis, CA
- 4/19/05 "Deep Foundations Subjected to Lateral Spreading," Invited Lecture at the University of Texas, Austin
- 5/19/05 "PEER Education Program," NSF Site Visit, Berkeley, CA
- 8/1/05 "Large-Scale Foundation Testing," PEER Earthquake Engineering Scholars Course, Davis, CA
- 1/19/06 "PEER Education Program," PEER Annual Meeting, San Francisco, CA
- 5/12/06 "Quantifying Seacliff Morphology using LIDAR," Invited Lecture at the Institute for Geophysics and Planetary Physics, La Jolla, CA

- 5/17/06 “Quantifying Seacliff Morphology using LIDAR,” Invited Lecture to the Geotechnical Group of the ASCE San Diego Section, San Diego, CA
- 6/19/06 “PEER Education Program,” NSF Reverse Site Visit, Washington, D.C.
- 8/2/06 “Quantifying Seacliff Morphology using LIDAR,” Invited Lecture to Chulalongkorn University, Bangkok, Thailand
- 8/3/06 “EERI Reconnaissance Effects for the 2003 Tokachi-Oki and 2004 Niigata-Ken Chuetsu Earthquakes,” Tenth Asian-Pacific Conference on Structural Engineering and Construction, Bangkok, Thailand
- 8/4/06 “Axial Force Transfer Mechanisms in Cast-in-Steel-Shell Piles,” Symposium on Recent Advances in Structural Engineering, Mechanics, and Materials in Honor of Professor Pishdi Karasudhi, Bangkok, Thailand
- 8/4/06 “Push-Over Analyses for Piles in Laterally Spreading Soil,” Tenth Asian-Pacific Conference on Structural Engineering and Construction, Bangkok, Thailand.
- 8/5/06 “Shake Table Competition to Stimulate Undergraduate Interest in Earthquake Engineering and Seismic Design,” Symposium on Recent Advances in Structural Engineering, Mechanics, and Materials in Honor of Professor Pishdi Karasudhi, Bangkok, Thailand
- 10/3/07 “Effect of Backfill-Type on the Stiffness and Capacity of Bridge Abutments,” invited lecture for ASCE Oregon Section, Lake Oswego, OR

PUBLICATIONS

Refereed Journal Articles

1. Ashford, S.A. and Madsen, S.L. (1993). “Application of a Test Fill at a Layered Clay Site,” Transportation Research Record No. 1369, Advances in Geotechnical Engineering, Transportation Research Board, pp.8-17.
2. Ashford, S.A., and Sitar, N. (1997). “Analysis of Topographic Amplification of Inclined Shear Waves in a Steep Coastal Bluff,” Bulletin of the Seismological Society of America, 87(3), pp. 692-700.
3. Ashford, S.A., Sitar, N., Lysmer, J., and Deng, N. (1997). “Topographic Effects on the Seismic Response of Steep Slopes,” Bulletin of the Seismological Society of America, 87(3), pp.701-709.

4. Ashford, S.A., and Jakrapiyanun, W. (1999). "Comparison of Estimated and Measured Vs Profile for Bangkok," Geotechnical Engineering, Journal of the Southeast Asian Geotechnical Society, 30(3), pp. 167-182.
5. Ashford, S.A., Visvanathan, C., Husain, N., and Chomsurin, C. (2000). "Design and Construction of Engineered Municipal Solid Waste Landfills in Thailand," Waste Management & Research, International Solid Waste Association, Vol. 18, pp. 462-470.
6. Ashford, S.A., Rollins, K.M., Bradford V, S.C., Weaver, T.J., Baez, J.I. (2001). "Liquefaction Mitigation Using Stone Columns Around Deep Foundations: Full Scale Test Results," Soil Mechanics 2000. Transportation Research Record No 1736. Transportation Research Board, pp. 110-118.
7. Ashford, S.A., and Jakrapiyanun, W. (2001). "Drivability of Glass FRP Composite Piling," Journal of Composites for Construction, ASCE, 5(1), pp. 58-61.
8. Ashford, S.A. and Sitar, N. (2001). "Effect of Element Size on the Static Finite Element Analysis of Steep Slopes," International Journal for Analytical and Numerical Methods in Geomechanics, Vol. 25, pp.1361-1376.
9. Ashford, S.A. and Sitar, N. (2002). "Simplified Method for Evaluating Seismic Stability for Steep Slopes," ASCE Journal of Geotechnical and Geoenvironmental Engineering, 128(2), pp.119-128.
10. Gibson, N., Filiatrault A., and Ashford, S.A. (2002). "Impulsive Seismic Response of Bridge Column-Cap Beam Joints," ACI Structural Journal, 99(4), pp.470-479.
11. Ashford, S.A., Weaver, T.S., and Rollins, K.M. (2002). "Pore Pressure Response of Liquefied Sand in Full-Scale Lateral Pile Load Tests," Soil Mechanics 2002, Transportation Research Record No. 1808, Transportation Research Board, pp. 21-29.
12. Kayen, R.E., Barnhardt, W.A., Ashford, S.A., Rollins, K.M., Minasian, D.L., and Carkin, B.A. (2002). "High-Resolution Crosshole Radar Tomography: Application to Liquefaction-Induced Changes in Soil on Treasure Island," Crustal Structure of the Coastal and Marine San Francisco Bay Region, California. Professional Paper No. 1658, United States Geological Survey, pp. 3-10.
13. Ashford, S.A., and Juirnarongrit, T. (2003). "Evaluation of Pile Diameter Effect on Initial Modulus of Subgrade Reaction," Journal of Geotechnical and Geoenvironmental Engineering, ASCE, 129(3), pp. 234-242.
14. Ashford, S.A., and Juirnarongrit, T. (2003). "Response of Single Piles and Pipelines in Liquefaction-Induced Lateral Spreads Using Controlled Blasting", Earthquake Engineering and Engineering Vibration, 1(2), pp. 181-194.

15. Ashford S.A., Rollins, K.M., and Lane, D. (2004). "Blast-Induced Liquefaction for Full-Scale Foundation Testing," Journal of Geotechnical and Geoenvironmental Engineering, ASCE, 130(8), pp. 798-806.
16. Weaver, T.S., Ashford, S.A., and Rollins, K.M. (2005). "Response of Liquefied Sand to a 0.6-m CISS Pile under Lateral Loading", Journal of Geotechnical and Geoenvironmental Engineering, ASCE, 131(1), pp.94-102.
17. Juirnarongrit, T., and Ashford, S.A. (2005). "Lateral Load Behavior of Cast-In-Drilled-Hole Piles in Weakly Cemented Sand," Transportation Research Record 1868, Soil Mechanics 2004, Transportation Research Board, pp.190-198.
18. Rollins, K.M., Gerber, Lane, D., and Ashford, S.A. (2005). "Lateral Resistance of a Full-Scale Pile Group in Liquefaction Sand," Journal of Geotechnical and Geoenvironmental Engineering, ASCE, 131(1), pp.115-125.
19. Rollins, K.M., Lane, D., Gibb, E., Ashford, S.A., and Mullins, A.G. (2005). "Pore Pressure Measurement in Blast-Induced Liquefaction Experiments," Transportation Research Record 1936, Soil Mechanics 2005, Transportation Research Board, pp. 210-220.
20. Ashford, S.A., Juirnarongrit, T., Sugano, T. and Hamada, M. (2006). "Soil-Pile Response to Blast-Induced Lateral Spreading. I: Field Test," Journal of Geotechnical and Geoenvironmental Engineering, ASCE, 132(2), pp. 152-162.
21. Juirnarongrit, T., and Ashford, S.A. (2006). "Soil-Pile Response to Blast-Induced Lateral Spreading. II: Analysis and Assessment of the p-y Method," Journal of Geotechnical and Geoenvironmental Engineering, ASCE, 132(2), pp. 163-172.
22. Young, A., and Ashford S.A. (2006). "Application of Airborne LIDAR for Seacliff Volumetric Change and Beach-Sediment Budget Contributions," Journal of Coastal Research, 22(2), pp. 307-318.
23. Rathje, E.M., Kelson, K., Ashford, S.A., Kawamata, Y., Towhata, I., Kokusho, T., and Bardet, J.P. (2006). "Geotechnical Aspects of 2004 Niigata Ken Chuetsu, Japan, Earthquake," Earth Spectra, EERI, 22(S1), pp. S23-S46.
24. Ashford, S.A., and Kawamata, Y. (2006). "Performance of Transportation Systems during the 2004 Niigata Ken Chuetsu, Japan, Earthquake," Earth Spectra, EERI, 22(S1), pp. S111-S132.
25. Bozorgzadeh, A, Megally, S., Restrepo, J.I., and Ashford, S.A. (2006). "Capacity Evaluation of Exterior Sacrificial Shear Keys of Bridge Abutments," Journal of Bridge Engineering, ASCE, 11(5), pp. 555-565.

26. Young, A.P., and Ashford, S.A. (2006). "Performance Evaluation of Seacliff Erosion Control Methods," Shore & Beach, Journal of the American Shore and Beach Preservation Association. (in press).

Refereed Conference Proceedings

1. Ashford, S.A., Roth, L.H., Madsen, S.L., and Anderson, D.G. (1992). "FS=1.5: Is it Appropriate for Embankment Design?" Stability and Performance of Slopes and Embankments – II, Geotechnical Special Publication No. 31, ASCE, pp. 1112-1125.
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