

Publications

Technical Reference Book

Perko, H.A. (2009) *Helical Piles: Practical Guide to Installation and Design*, John Wiley & Sons, New York, U.S.A.

Refereed Conference Abstracts

1. Huang, J., McCartney, J.S., Perko, H.A., et al. (2019) "A Novel Energy Pile: The Thermo-Syphon Helical Pile", *Journal of Applied Thermal Engineering* (In Review)
2. White, B., Perko, H.A., and Shive, B. (2019) "Helical Pile Load Testing - The Application of Static and Dynamic Methods", *Proceedings of 10th International Conference on Stress Wave Theory and Testing of Deep Foundations*, Lowell, MA (In Progress)
3. Kolm, M.J. and Perko, H.A. (2019) "Capacity of Hydraulically Jacked Piles", *DFI Journal*, Deep Foundation Institute, New Jersey (In Review)
4. Perko, H.A. (2019) "Emergent Grout Pile Technologies", *DFI Magazine*, Mar/Apr Edition, New Jersey
5. Slaughter, S.H., Perko, H.A., and Parker, T. (2019) "High Capacity Grouted Helical Piles: A Series of Installation and Load Test Programs", *SuperPile Conference*, Deep Foundation Institute, Seattle, WA
6. Benvenga, M., Perko, H.A., and Trantham, H. (2018) "Pore Pressure Response of Large Diameter Helical Piles", *Proceedings of DFI Annual Conference*, Anaheim, CA, Deep Foundation Institute, New Jersey
7. Kolm, M.J. and Perko, H.A. (2017) "Capacity of Hydraulically Jacked Piles", *Proceedings of DFI Annual Conference*, New Orleans, LA, DFI, New Jersey
8. Wey, E., Murray, P., Perko, H.A., Volpe, P., Normand, C., and Ogilvie, B. (2017) "Large Diameter Helical Piles for Refinery Expansion", *Proceedings of DFI Annual Conference*, New Orleans, LA, Deep Foundation Institute, New Jersey
9. Wey, E., Murray, P., Perko, H.A., Volpe, P., and Mondoy, M. (2017) "Custom Helical Pile Use for Refinery Revamp: A Case Study", *Proceedings of Structures Congress 2017: Business, Professional Practice, Education, Research, and Disaster Management*, J.G. Soules, Ed., ASCE Structural Engineering Institute, Denver, CO, ASCE Press
10. Kolm, M. and Perko, H.A. (2016) "Design of Box Frames for DFI Seismic Research Program", *Helical Piles and Tiebacks Seminar*, Deep Foundations Institute, Los Angeles, CA
11. Perko, H.A. (2016) "Underpinning Case Histories with Hydraulically-Jacked, Steel-Pipe Piles", *SuperPile Conference*, Deep Foundation Institute, Chicago, IL
12. Perko, H.A. (2016) "Foundation Systems for Hurricane and Flood Prone Regions", *Annual Conference*, Association of State Flood Plane Managers, Grand Rapids, MI
13. Perko, H.A. (2015) "Helical Piles: Bridge Applications", *Iowa State Association of Counties Fall School of Instruction*, Cedar Rapids, IA
14. Perko, H.A. (2015) "Foundation Systems for Hurricane Prone Regions", *Helical Foundations and Tiebacks Technology Seminar*, Deep Foundation Institute, Newark, NJ

15. Perko, H.A. (2015) "Foundation Designs in Hurricane Prone Regions", Atlantic City Builders Show, Atlantic City, NJ
16. Perko, H.A., Paquette, M., Gallagher, M., and Burns, A. (2013) "Rotary Driven Pipe Piles for a 14-Story Building in New York City", Proceedings of 7th International Conference on Case Histories in Geotechnical Engineering, Chicago, IL
17. Cherry, J.A. and Perko, H.A. (2013) "Deflection of Helical Piles: A Load Test Database Review", Proceedings of 1st International Geotechnical Symposium on Helical Foundations, International Society for Helical Foundations, University of Massachusetts, Amherst, MA, USA
18. Cherry, J.A. and Perko, H.A. (2013) "Helical Pile Deflection and Reliability", DFI Magazine, Winter Volume 2012-2013, New Jersey
19. Perko, H.A. (2013) "Rotary Driven Pipe Piles Performance in Sand and Clay", SuperPile Conference, Deep Foundation Institute, Minneapolis, MN
20. Perko, H.A. (2013) "Pitfalls of Helical Pile and Helical Anchor Design", Helical Foundations and Tiebacks Technology Seminar, Deep Foundation Institute, Denver, CO
21. Perko, H.A. (2012) "Case Histories of Helical Piles and Associated Lessons Learned" Invited Speaker, 1st Annual ASCE Geo-Virginia Conference, Williamsburg, VA, May 2012
22. Perko, H.A. (2011) "Design of Helical Piles for Support of Natural Gas Compressors and Vibrating Machines", Helical Foundations and Tiebacks Technology Seminar, Deep Foundation Institute, Dallas, TX
23. Perko, H.A. (2010) "Failures of Helical Piles and Helical Anchors and Associated Lessons Learned", Deep Foundations Magazine, Summer Issue, DFI, New Jersey
24. Perko, H.A. (2010) "Failures of Helical Piles and Helical Anchor Supported Structures and Associated Lessons Learned" Annual Conference, Structural Engineers Association of Kentucky, Louisville, KY
25. Perko, H.A. (2010) "Failures of Helical Piles and Helical Anchors and Associated Lessons Learned" Helical Foundations and Tie-Backs Seminar, Deep Foundation Institute, Las Vegas, Nevada
26. Perko, H.A. (2010) "Lateral Capacity and Redundant Design of Helical Piles" Helical Foundations and Tie-Backs Seminar, Deep Foundation Institute, Las Vegas, Nevada
27. Perko, H.A. (2010) "Failures of Helical Piles and Helical Anchors and Associated Lessons Learned", DFI Magazine, Summer Volume 2010, New Jersey
28. Perko, H.A. (2009) "Status of Helical Piles in Building Codes" Guest Lecture, Colorado Association of Geotechnical Engineers, Denver, CO, March 2009
29. Perko, H.A. (2009) "State of Practice Regarding Helical Piles" Annual Conference, Structural Engineers Association of Kentucky, Lexington, KY
30. Perko, H.A. (2009) "History, Design and Applications of Helical Piles and Steel Push Piers" Quarterly Meeting, Structural Engineers Association of Tennessee, Mid-Section, Nashville, TN
31. Perko, H.A. (2009) "State of Practice Regarding Helical Piles" Helical Foundations and Tie-Backs Specialty Seminar, Deep Foundation Institute, University of Alberta, AB, Canada
32. Perko, H.A. (2008) "Status of Helical Piles in Building Codes" Helical Foundations and Tie-Backs Specialty Seminar, Deep Foundations Institute, Los Angeles, CA

33. Perko, H. A. (2008) "Helical Foundation for Alexan Broadway Parking Structure" Case Histories in Deep Foundations Seminar, Deep Foundations Institute, Cincinnati, Ohio
34. Perko, H.A. (2008) "Innovative High-Production Methods for Driven H-Piles and Monotubes" Deep Foundations Magazine, Spring Issue, DFI, New Jersey
35. Perko, H. A., and Boulden, J. (2008) "Lateral Earth Pressures on Wood Lagging in Soldier Pile Earth Shoring Systems", DFI Journal, Vol. 2, Deep Foundation Institute, New Jersey
36. Perko, H.A. (2007) "Creating Acceptance for Helical Foundations" Feature Article, Code Updates, Code Developments and Announcements, Structure Magazine, December Issue
37. Perko, H.A. (2007) "Evidence of Seismic Resistance of Helical Foundations", Helical Foundations and Tiebacks Technology Seminar, Deep Foundation Institute, New Orleans, LA
38. Perko, H.A., Dwyer, B.B., and Bonekemper, W. (2007) "Lateral Resistance of Helical Foundations for Hurricane Prone Coastal Areas", Helical Foundations and Tiebacks Technology Seminar, Deep Foundation Institute, New Orleans, LA
39. ICC-Evaluation Services (2007) AC308 Acceptance Criteria for Helical Foundation Systems and Devices, Howard A. Perko, Prime Consultant and Originating Author
40. Perko, H.A. (2006) "Installation Torque as a Predictor of Helical Pier Axial Capacity" Technical Article, HelicalPierWorld.com.
41. Thompson, R.W., Rethamel, W., and Perko, H.A. (2006) "Comparison of Constant Volume and Oedometer Swell Pressures", Proceedings of Unsat 2006, American Society of Civil Engineers, Phoenix, AZ
42. Perko, H.A. (2005) "Underpinning and Shoring for Underground MRI Research Facility at Ohio State University" Proceedings of Underground Construction in Urban Environments, ASCE Geo-Institute, New York City
43. Perko, H.A. (2005) HeliPost Engineering Handbook, Secure Piers, LLC, Fort Collins, CO
44. Perko, H.A. (2004) "Introduction to Corrosion and Galvanizing of Helix Foundations" Helical Foundations and Tiebacks Technology Seminar, Deep Foundation Institute, Tampa, FL.
45. Perko, H.A. (2003) "Lateral Capacity and Buckling Resistance of Helix Pier Foundations" Helical Foundations and Tiebacks Technology Seminar, Deep Foundation Institute, Cincinnati, OH.
46. Perko, H.A., Thompson, R.W., and Nelson, J.D. (2000). "Suction Compression Index Based on Results from CLOD Tests", Advances in Unsaturated Geotechnics, C.D. Shackelford, S.L. Houston, and N.Y. Chang, Eds., ASCE Press, Reston, VA, pp. 393-408.
47. Perko, H.A. (2000). "Energy Method for Predicting the Installation Torque of Helical Foundations and Anchors", New Technologies and Design Developments in Deep Foundations, N.D. Dennis, Jr., R. Casteli, and M.W. O'Neill, Eds., ASCE Press, Reston, VA, pp. 342-352.
48. Perko, H.A. and Rupiper, S.J. (2000) Basic Helix Foundation Engineering, Ingal-Precision Foundations, Inc., Larkspur, CO
49. Perko, H.A. (1999) "Summary of Earth Retaining Methods Utilizing Helical Anchors", Magnum Helix Foundation Tech. Ref. Manual, Magnum Piering, Inc., Cincinnati, OH
50. Perko, H. A. (1996). "Predicting Remaining Heave and the Time Rate of Heave by the Hyperbolic Method", Colorado State University Technical Report, Fort Collins, CO