



CURRICULUM VITAE

IOANNIS ANASTASOPOULOS

Assistant Professor, *School of Civil Engineering*
Associate Director, *Laboratory of Soil Mechanics*
National Technical University of Athens, Greece

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ACADEMIC BACKGROUND

- 2005 **PhD in Civil Engineering**, National Technical University of Athens, Greece
Supervisor: Professor George Gazetas
- 2001 **MS in Civil Engineering**, Purdue University, West Lafayette, IN
- 1999 **Diploma in Civil Engineering**, National Technical University of Athens, Greece

ACADEMIC EXPERIENCE

- 2011–present **Assistant Professor** (*elected on November 2011*)
School of Civil Engineering, National Technical University of Athens, Greece
- 2008–present **Associate Director**
Laboratory of Soil Mechanics (LSM), Division for Numerical and Experimental
Simulation of Soil–Structure Systems, National Technical University of Athens
- 2008–2011 **Adjunct Lecturer**
School of Civil Engineering, National Technical University of Athens, Greece
- 2006–2008 **Honorary Postdoctoral Research Fellow**
University of Dundee, Division of Civil Engineering, Scotland, UK.
- 2005–2008 **Lab Manager and Postdoctoral Researcher**
Laboratory of Soil Mechanics, Division for Numerical and Experimental
Simulation of Soil–Structure Systems, National Technical University of Athens
- 2001–2005 **Research Associate & Teaching Assistant**
School of Civil Engineering, National Technical University of Athens
- 1999–2000 **Graduate Research Assistant**
Purdue University, Division of Civil Engineering, West Lafayette, IN, USA

PROFESSIONAL EXPERIENCE

- 2006–present **Partner**
SGM Engineering, Seismic and Geotechnical Mechanics Consulting Engineers
(www.sgm-engineering.com)
- 2006–present **Consultant**
Consulting services: geotechnical and earthquake engineering
- 2001–2005 **Associate**
Gazetas Associates, Seismic and Geotechnical Mechanics Consulting Engineers

PROFESSIONAL LICENSE

- 2001–present **P.E. (Greece)**, Technical Chamber of Greece, Registration No. 87380 (the license is
valid all over the European Union, recognized by all 27 member states)

PUBLICATIONS

Refereed Journal Publications

Under Review

- J55. Drosos V., **Anastasopoulos I.** (2013), “Experimental Investigation of the Seismic Response of Classical Temple Columns”, *Bulletin of Earthquake Engineering* (submitted).
- J54. Loli M., **Anastasopoulos I.**, Gazetas G. (2013), “Nonlinear Analysis of Earthquake Fault Rupture Interaction with Historic Masonry Buildings”, *Earthquake Spectra* (submitted).
- J53. Adamidis O., Gazetas G., **Anastasopoulos I.** (2013), “Equivalent–linear stiffness and damping in rocking of circular and strip foundations”, *Bulletin of Earthquake Engineering* (submitted).
- J52. **Anastasopoulos I.** (2013), “Forensic analysis of 5-storey building damaged during nearby construction”, *Geotechnical Engineering*, ICE (submitted).
- J51. **Anastasopoulos I.**, Kontoroupi Th. (2013), “SDOF System Rocking on Inelastic Soil: Development of Simplified Nonlinear Analysis Method”, *Soil Dynamics and Earthquake Engineering* (submitted).

Tentatively Accepted

- J50. Fadaee M., **Anastasopoulos I.**, Gazetas G., Jafari M.K., Kamalian M. (2013), “Soil Bentonite Wall Protects Foundation from Thrust Faulting : Analyses and Experiment”, *Earthquake Engineering and Engineering Vibration* (revision submitted).
- J49. **Anastasopoulos I.**, Gelagoti F., Spyridaki A., Sideri Tz., Gazetas G. (2013), “Seismic Rocking Isolation of Asymmetric Frame on Spread Footings”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE (revision submitted).

Published (or in press)

- J48. **Anastasopoulos I.**, Kourkoulis R., Gazetas G., Tsatsis A. (2013), “Interaction of piled foundation with a rupturing normal fault”, *Géotechnique* (in press).
- J47. Gazetas G., **Anastasopoulos I.**, Adamidis O., Kontoroupi Th. (2013), “Nonlinear Rocking Stiffness of Foundations”, *Soil Dynamics and Earthquake Engineering*, (available online, DOI: 10.1016/j.soildyn.2012.12.011).
- J46. Giannakou A., Gerolymos N., Gazetas G., Tazoh T., **Anastasopoulos I.** (2013), “Closure to Seismic Behavior of Batter Piles: Elastic Response”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 139(1): 185–187.
- J45. **Anastasopoulos I.**, Loli M., Georgarakos T., Drosos V. (2013), “Shaking Table Testing of Rocking–isolated Bridge Pier”, *Journal of Earthquake Engineering*, 17(1): 1–32 ([J45](#)).
- J44. **Anastasopoulos I.**, Kourkoulis R., Gelagoti F., Papadopoulos E. (2012), “Metaplastic Rocking Response of SDOF Systems on Shallow Improved Sand: an Experimental Study”, *Soil Dynamics and Earthquake Engineering*, 40: 15–33 ([J44](#)).
- J43. Kourkoulis R., **Anastasopoulos I.**, Gelagoti F., Kokkali P. (2012), “Dimensional Analysis of SDOF Systems Rocking on Inelastic Soil”, *Journal of Earthquake Engineering*, 16(7): 995–1022 ([J43](#)).
- J42. Gelagoti F., Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2012), “Nonlinear Dimensional Analysis of Trapezoidal Valleys Subjected to Vertically Propagating SV Waves”, *Bulletin of the Seismological Society of America*, 102(3): 999–1017 ([J42](#)).

- J41. Kourkoulis R., Gelagoti F., **Anastasopoulos I.** (2012), “Rocking Isolation of Frames on Isolated Footings: Design Insights and Limitations”, *Journal of Earthquake Engineering*, 16 (3): 374–400 ([J41](#)).
- J40. Drosos V., Georgarakos T., Loli M., **Anastasopoulos I.**, Zarzouras O., and Gazetas G. (2012), “Soil–Foundation–Structure Interaction with Mobilization of Bearing Capacity : An Experimental Study on Sand”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 138(11): 1–18 ([J40](#)).
- J39. Gelagoti F., Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2012), “Rocking Isolation of Low Rise Frame Structures Founded on Separate Footings”, *Earthquake Engineering and Structural Dynamics*, 41: 1177–1197 ([J39](#)).
- J38. Kourkoulis R., Gelagoti F., **Anastasopoulos I.**, Gazetas G. (2012), “Hybrid Method for Analysis and Design of Slope Stabilizing Piles”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 138(1): 1–14 ([J38](#)).
- J37. Loli M., Bransby M.F., **Anastasopoulos I.**, Gazetas G. (2012), “Interaction of Caisson Foundations with a Seismically Rupturing Normal Fault: Centrifuge Testing versus Numerical Simulation”, *Géotechnique*, 62(1): 29–43 ([J37](#)).
- J36. Gelagoti F., Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2012), “Rocking-isolated frame structures: Margins of safety against toppling collapse and simplified design approach”, *Soil Dynamics and Earthquake Engineering*, 32(1): 87–102 ([J36](#)).
- J35. **Anastasopoulos I.**, Gelagoti F., Kourkoulis R., Gazetas G. (2011), “Simplified Constitutive model for Simulation of Cyclic Response of Shallow Foundations: Validation against Laboratory Tests”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 137(12): 1154–1168 ([J35](#)).
- J34. Kouroussis G., Gazetas G., **Anastasopoulos I.**, Verlinden O., Conti C. (2011), “Discrete modelling of vertical track–soil coupling for vehicle–track dynamics”, *Soil Dynamics and Earthquake Engineering*, 31(12):1711–1723 ([J34](#)).
- J33. Garini E., Gazetas G., and **Anastasopoulos I.** (2011), “Asymmetric 'Newmark' sliding caused by motions containing severe 'directivity' and 'fling' pulses”, *Géotechnique*, 61(9): 733–756 ([J33](#)).
- J32. Loli M., **Anastasopoulos I.**, Bransby M.F., Waqas A., Gazetas G. (2011), “Caisson Foundations subjected to Reverse Fault Rupture : Centrifuge Testing and Numerical Analysis”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 137(10): 914–925 ([J32](#)).
- J31. Kourkoulis R., Gelagoti F., **Anastasopoulos I.**, Gazetas G. (2011), “Slope stabilizing piles and pile-groups: Parametric study and design insights”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 137(7): 663–677 ([J31](#)).
- J30. **Anastasopoulos I.**, Georgarakos T., Georgiannou V., Drosos V., Kourkoulis R. (2010), “Seismic Performance of Bar-Mat Reinforced-Soil Retaining Wall: Shaking Table Testing versus Numerical Analysis with Modified Kinematic Hardening Constitutive Model”, *Soil Dynamics & Earthquake Engineering*, 30(10): 1089–1105.
- J29. Kourkoulis R., **Anastasopoulos I.**, Gelagoti F., Gazetas G. (2010), “Interaction of Foundation–Structure Systems with Seismically–Precarious Slopes : Numerical Analysis with Strain Softening Constitutive Model”, *Soil Dynamics & Earthquake Engineering*, 30(12): 1430–1445 ([J29](#)).

- J28. **Anastasopoulos I.**, Gazetas G., Loli M., Apostolou M, Gerolymos N. (2010), “Soil Failure can be used for Earthquake Protection of Structures”, *Bulletin of Earthquake Engineering*, 8(2): 309-326 ([J28](#)).
- J27. Gelagoti F., Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2010), “Seismic wave propagation in a very soft alluvial valley: Sensitivity to ground-motion details and soil nonlinearity, and generation of a parasitic vertical component”, *Bulletin of the Seismological Society of America*, 100(6): 3035–3054 ([J27](#)).
- J26. **Anastasopoulos I.**, Antonakos G., Gazetas G. (2010), “Slab Foundation subjected to Thrust Faulting: Parametric Analysis and Simplified Design Method”, *Soil Dynamics & Earthquake Engineering*, 30(10): 912–924 ([J26](#)).
- J25. Gazetas G., Garini E., **Anastasopoulos I.**, Gerorgarakos T. (2010), “Effects of Near–Fault Ground Shaking on Sliding Systems”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 135(12): 1906–1921 ([J25](#)).
- J24. **Anastasopoulos I.**, Gazetas G. (2010), “Analysis of cut-and-cover tunnels against large tectonic deformation”, *Bulletin of Earthquake Engineering*, 8(2): 283-307 ([J24](#)).
- J23. Giannakou A., Gerolymos N., Gazetas G., Tazoh T., **Anastasopoulos I.** (2010), “Seismic Behaviour of Batter Piles: Elastic Response”, *Journal of Geotechnical Engineering*, ASCE, 136(9): 1187-1199 ([J23](#)).
- J22. **Anastasopoulos I.**, Alfi S., Gazetas G., Bruni S., and Van Leuven A. (2009), “Numerical and experimental assessment of advanced concepts to reduce noise and vibration on urban railway turnouts”, *Journal of Transportation Engineering*, ASCE, 135(5): 279–287 ([J22](#)).
- J21. Bruni S., **Anastasopoulos I.**, Alfi S., Van Leuven A., Apostolou M., and Gazetas G. (2009), “Train-induced Vibrations on Urban Metro and Tram Turnouts”, *Journal of Transportation Engineering*, ASCE, 135(7): 397–405 ([J21](#)).
- J20. **Anastasopoulos I.** (2009), “Closure to Fault Rupture Propagation through Sand: Finite-Element Analysis and Validation through Centrifuge Experiments”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 133(8): 943–958.
- J19. Bruni S., **Anastasopoulos I.**, Alfi S., Van Leuven A., Gazetas G. (2008) “Effects of train impacts on urban turnouts: modelling and validation through measurements”, *Journal of Sound and Vibration*, 324(3–5): 666–689 ([J19](#)).
- J18. **Anastasopoulos I.**, Gazetas G., Bransby M.F., Davies M.C.R., and El Nahas A. (2009), “Normal Fault Rupture Interaction with Strip Foundations”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 135(3): 359-370 ([J18](#)).
- J17. **Anastasopoulos I.**, Gazetas G., Drosos V., Georgarakos T., and Kourkoulis R. (2008), “Design of bridges against large tectonic deformation”, *Earthquake Engineering and Engineering Vibration*, 7(4): 345–368 ([J17](#)).
- J16. Gazetas G., Pecker A., Faccioli E., Paolucci R., and **Anastasopoulos I.** (2008), “Preliminary Design Recommendations for Dip-slip Fault–Foundation Interaction”, *Bulletin of Earthquake Engineering*, 6(4): 677–687.
- J15. **Anastasopoulos I.**, Callerio, A., Bransby, M.F., Davies, M.C.R., El. Nahas, A., Faccioli, E., Gazetas, G., Masella, A., Paolucci, R., Pecker, A., Rossignol, E. (2008), “Numerical Analyses of Fault–Foundation Interaction”, *Bulletin of Earthquake Engineering*, 6(4): 645–675 ([J15](#)).

- J14. Faccioli, E., **Anastasopoulos, I.**, Callerio, A., and Gazetas, G. (2008), “Case histories of fault–foundation interaction”, *Bulletin of Earthquake Engineering*, 6(4): 557–583 ([J14](#)).
- J13. Gerolymos, N., Giannakou, A., **Anastasopoulos, I.**, and Gazetas, G. (2008), “Evidence of beneficial role of inclined piles: Observations and Summary of Numerical Analyses”, *Bulletin of Earthquake Engineering*, 6(4): 705–722 ([J13](#)).
- J12. **Anastasopoulos I.**, Gerolymos N., Gazetas G., and Bransby M. F. (2008), “Simplified approach for design of raft foundations against fault rupture. Part I : Free-field”, *Earthquake Engineering and Engineering Vibration*, 7: 147–163 ([J12](#)).
- J11. **Anastasopoulos I.**, Gerolymos N., Gazetas G., and Bransby M. F. (2008), “Simplified approach for design of raft foundations against fault rupture. Part II : Soil–Structure Interaction”, *Earthquake Engineering and Engineering Vibration*, 7: 165–179 ([J11](#)).
- J10. **Anastasopoulos, I.**, Gerolymos, N., Drossos, V., Kourkoulis, R., Georgarakos, P., and Gazetas, G. (2008) “Behaviour of Deep Immersed Tunnel under Combined Normal Fault Rupture Deformation and Subsequent Seismic Shaking”, *Bulletin of Earthquake Engineering*, 6(2): 213–239 ([J10](#)).
- J9. **Anastasopoulos I.**, Gerolymos N., Drosos V., Kourkoulis R., Georgarakos P., Gazetas G. (2007) “Nonlinear Response of Deep Immersed Tunnel to Strong Seismic Shaking”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 133(9): 1067–1090 ([J9](#)).
- J8. **Anastasopoulos I.**, & Gazetas G. (2007), “Foundation-Structure Systems over a Rupturing Normal Fault: Part I. Observations after the Kocaeli 1999 Earthquake”, *Bulletin of Earthquake Engineering*, 5(3): 253–275 ([J8](#)).
- J7. **Anastasopoulos I.**, & Gazetas G. (2007), “Behaviour of Structure–Foundation Systems over a Rupturing Normal Fault: Part II. Analysis of the Kocaeli Case Histories”, *Bulletin of Earthquake Engineering*, 5(3): 277–301 ([J7](#)).
- J6. **Anastasopoulos I.**, & Gazetas G. (2007), “Analysis of Failure of Scissors Crossover Guardrail Support Base-Plates and the Role of Foundation–Structure Interaction”, *Engineering Failure Analysis*, 14(5): 765–782 ([J6](#)).
- J5. **Anastasopoulos I.**, Gazetas G., Bransby M.F., Davies M.C.R., El Nahas A. (2007), “Fault Rupture Propagation through Sand : Finite Element Analysis and Validation through Centrifuge Experiments”, *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 133(8): 943–958 ([J5](#)).
- J4. Gerolymos N., **Anastasopoulos I.**, Gazetas G. (2007) “Opening ceremony shaft for the Athens 2004 Olympic Games”, *Geotechnical Engineering*, ICE, 160(2): 61–71.
- J3. Gazetas G., Gerolymos N., **Anastasopoulos I.** (2005), “Response of Three Athens Metro Underground Structures in the 1999 Parnitha Earthquake”, *Soil Dynamics & Earthquake Engineering*, 25(7-10): 617–633 ([J3](#)).
- J2. Gazetas G., Psarropoulos P.N., **Anastasopoulos I.**, and Gerolymos N. (2004), “Seismic Behaviour of Flexible Retaining Systems Subjected to Short Duration Moderately Strong Excitation”, *Soil Dynamics & Earthquake Engineering*, 24(7): 537–550 ([J2](#)).
- J1. Peeta S., **Anastassopoulos I.** (2002), “Automatic Real-time Detection of Erroneous Detector Data using Fourier Transforms for On-Line Traffic Control Architectures”, *Transportation Research Record*, 1811: 1–11.

Chapters in Books, Special Publications

- B5. **Anastasopoulos I.** (2010), “Beyond conventional capacity design: towards a new design philosophy”, In: *Soil–Foundation–Structure Interaction*, Orense R.O., Chow N., and Pender M.J. (editors), CRC Press, Taylor & Francis Group : New York, pp. 213–220.
- B4. Tazoh T., Sato M., Jang J., Taji Y., Gazetas G., **Anastasopoulos I.** (2010), “Kinematic response of batter pile foundation: centrifuge tests”, In: *Soil–Foundation–Structure Interaction*, Orense R.O., Chow N., and Pender M.J. (editors), CRC Press, Taylor & Francis Group : New York, pp. 41–48.
- B3. Gazetas G., **Anastasopoulos I.**, Apostolou M. (2007), “Shallow and Deep Foundations under Fault Rupture or Strong Seismic Shaking”, *Earthquake Geotechnical Engineering*, Ptilakis K., Editor, Springer: Berlin, pp. 185–210.
- B2. Gazetas G., **Anastasopoulos I.**, Gerolymos N., Mylonakis G., & Syngros C. (2005), “The Collapse of the Hanshin Expressway (Fukae) Bridge, Kobe 1995 : Soil–Foundation–Structure Interaction, Reconstruction, Seismic Isolation”, In : *Entwicklungen in der Bodenmechanik, Bodendynamik und Geotechnik, Festschrift zum 60. Geburtstag von Univ.-Professor Dr.-Ing.habil. Stavros A. Savidis*, Frabk Rackwitz, Springer : Berlin, pp. 93–120.
- B1. Mylonakis G., Gazetas G., Gerolymos N., and **Anastasopoulos I.** (2000), “Detrimental Role of Soil-Structure Interaction and the Collapse of the 18-Pier Fukae Bridge in Kobe”, In: *Recent Advances in Applied Mechanics*, T. Katsikadelis, D.E. Beskos and E.E. Gdoutos, Editors, NTUA : Athens, pp.145–159.

Conference Proceedings

- C97. **Anastasopoulos I.**, Drosos V., Antonaki N., Rontogianni A. (2012), “The Role of Soil–Foundation–Structure Interaction on the Seismic Performance of an Existing 3-storey Building: Shaking Table Testing”, *15th Int. Conf. on Earthquake Engineering*, Lisbon, Portugal, September 24-28, 2012, Paper 4865.
- C96. Manoledaki A.A., Drosos V., **Anastasopoulos I.**, Vintzileou E., Gazetas G. (2012), “Experimental assessment of the seismic response of three-leaf stone masonry walls, with due consideration to soil–structure interaction”, *15th Int. Conf. on Earthquake Engineering*, Lisbon, Portugal, September 24-28, 2012, Paper 4309.
- C95. Loli M., **Anastasopoulos I.**, Gazetas G., Cattari S., Degli Abbatì S., Lagomarsino S. (2012), “Response of Historic Masonry Structures to Tectonic Ground Displacements”, *Proc. 15th Int. Conf. on Earthquake Engineering*, Lisbon, Portugal, September 24-28, 2012, Paper 3935.
- C94. **Anastasopoulos I.** (2012), “Effectiveness of shallow soil improvement on the performance of rocking-isolated bridge piers : monotonic and cyclic pushover testing”, *2nd International Conference on Performance-Based Design in Earthquake Geotechnical Engineering*, Taormina, Italy, May 28–30, 2012.
- C93. Drosos V., Georgarakos T., Loli M., **Anastasopoulos I.**, Gazetas G. (2012), “Nonlinear soil–foundation interaction: an experimental study on sand”, *2nd International Conference on Performance-Based Design in Earthquake Geotechnical Engineering*, Taormina, Italy, May 28–30, 2012.
- C92. **Anastasopoulos I.**, Loli M., Gelagoti F., Kourkoulis R., Gazetas G. (2012), “Nonlinear soil–foundation interaction: numerical analysis”, *2nd International Conference on Performance-Based Design in Earthquake Geotechnical Engineering*, Taormina, Italy, May 28–30, 2012.

- C91. Tsatsis A., Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2011), “Bridge Pier founded on Pile-group: Ductile Design Against Faulting”, *Proc. International Conference: Innovations on Bridges and Soil–Bridge Interaction, IBSBI 2011*, Athens, Greece, October 13-15, 2011.
- C90. **Anastasopoulos I.**, Kourkoulis R., Papadopoulos E. (2011), “1-g Experimental Investigation of the Metaplastic Rocking Response of 1-dof Oscillators on Shallow Footings”, *Proc. 4th Japan–Greece Workshop on Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage*, Kobe, 6–7 October.
- C89. **Anastasopoulos I.**, Loli M., Drosos V., Gazetas G. (2011), “Cyclic Pushover and Shake Table Testing of Bridge Pier with Foundation Uplifting and Soil Yielding”, *Proc. 4th Japan–Greece Workshop on Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage*, Kobe, Japan, 6–7 October.
- C88. Loli M., **Anastasopoulos I.** (2011), “Normal and Reverse Fault Rupture Interaction with Caisson Foundations : Centrifuge Modeling and Numerical Simulation”, *Proc. 4th Japan–Greece Workshop on Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage*, Kobe, Japan, 6–7 October.
- C87. **Anastasopoulos I.**, Loli M., Gelagoti F., Kourkoulis R., Gazetas G. (2011), “Nonlinear Soil–Foundation Interaction: Numerical Analysis”, *Proc. 4th Japan–Greece Workshop on Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage*, Kobe, Japan, 6–7 October.
- C86. Loli M., **Anastasopoulos I.**, Bransby M.F., Gazetas G. (2011), “Normal and Reverse Fault Rupture Interaction with Caisson Foundations: Centrifuge Modelling and Numerical Simulation”, *5th International Conference on Earthquake Geotechnical Engineering*, Santiago, Chile, 10-13 January.
- C85. Kourkoulis R., Gelagoti F., **Anastasopoulos I.**, Gazetas G. (2011), “Stabilization of seismically unstable slopes using Piles: Parametric Analysis”, *5th International Conference on Earthquake Geotechnical Engineering*, Santiago, Chile, 10-13 January.
- C84. Gelagoti F., Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2011), “Effect of Soil Non-linearity on the Seismic response of a very soft Alluvial Valley”, *5th International Conference on Earthquake Geotechnical Engineering*, Santiago, Chile, 10-13 January.
- C83. Kouroussis G., Gazetas G., **Anastasopoulos I.**, Conti C., Verlinden O. (2011), “Lumped mass model of vertical dynamic coupling of a railway track on elastic homogeneous or layered halfspace”, *Proc. EURO DYN 2011 : 8th International Conference on Structural Dynamics*, 4-6 July, Leuven, Belgium.
- C82. **Anastasopoulos I.**, Drosos V., Georgarakos T., Gazetas G. (2010), “Experimental Validation of Bridge Pier Seismic Design Employing Soil Ductility”, *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, 29/9–1/10, Vol. 1, pp. 299–303 (*in Greek*).
- C81. Drosos V., Gelagoti F., Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2010), “New Thessaloniki Commercial Port: Non-linear seismic Analysis of the Quay Wall”, *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, 29/9–1/10, Vol. 1, pp. 313–319 (*in Greek*).
- C80. Gelagoti F., Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2010), “Non-Linear Inelastic Behavior of Foundations: Application on the Seismic Protection of Frame Structures”, *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, 29/9–1/10, Vol. 1, pp. 483–490 (*in Greek*).

- C79. Gelagoti F., Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2010), "Seismic Soil-Foundation-Frame Interaction under Valley-affected Ground Motion", *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, 29/9–1/10, Vol. 1, pp. 491-498 (*in Greek*).
- C78. **Anastasopoulos I.** (2010), "Seismic Design of Bridges against Seismic Faulting", *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, 29/9–1/10, Vol. 1, pp. 501–508 (*in Greek*).
- C77. Kourkoulis R., Gelagoti F., **Anastasopoulos I.**, Gazetas G. (2010), "Pile Effectiveness for Slope Stabilization: 3D Numerical Investigation", *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, 29/9–1/10, Vol. 2, pp. 107– 114 (*in Greek*).
- C76. **Anastasopoulos I.**, Bouziou D. (2010), "3-D Seismic Response of Bridge Pier on Pilegroup: Towards a New Design Philosophy", *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, 29/9–1/10, Vol. 3, pp. 275-282 (*in Greek*).
- C75. Loli M., **Anastasopoulos I.**, Bransby M.F., Gazetas G. (2010), "Caisson foundation subjected to normal faulting: Experimental and analytical study", *Proc. 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, 29/9–1/10, Vol. 3, pp. 283–290 (*in Greek*).
- C74. **Anastasopoulos I.**, Georgarakos T., Drosos V., Gazetas G. (2010), "Experimental Soil–Foundation–Bridge Pier Interaction: Towards a Reversal of Capacity design", *Proc. 5th Int. Conf. on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics and Symposium in Honor of Professor I.M. Idriss*, San Diego, CA, May 24-29.
- C73. **Anastasopoulos I.**, Georgarakos T., Kourkoulis R., Gazetas G. (2010), "Design of bridges against seismic faulting: methodology and applications", *Proc. 5th Int. Conf. on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics and Symposium in Honor of Professor I.M. Idriss*, San Diego, CA, May 24-29.
- C72. **Anastasopoulos I.**, Kourkoulis R., Drosos V., Georgarakos T., Gazetas G. (2009), "Methodology for Design Analysis of Bridges against an Emerging Fault Rupture", *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 375–392.
- C71. **Anastasopoulos I.** (2009), "Simplified Method for the Design of Raft Foundations against a Direct Hit by Thrust Faulting" *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 419–437.
- C70. Stavropoulou E., **Anastasopoulos I.**, Gazetas G. (2009), "Preliminary SFSI Studies for the Messina Bridge Foundations", *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 438–448.
- C69. **Anastasopoulos I.**, Loli M., Gerolymos N., Apostolou M., Gazetas G. (2009), "Towards a Reversal of Seismic Capacity Design. Part A : Analysis of Bridge Pier–Foundation System", *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 393–406.
- C68. **Anastasopoulos I.**, Georgarakos T., Drosos V., Giannakos S., Gazetas G. (2009), "Towards a Reversal of Seismic Capacity Design : Part B. Shaking", *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 407–418.

- C67. Kourkoulis R., Gelagoti F., **Anastasopoulos I.**, Gazetas G. (2009), “Piles for Stabilising Seismically Precarious Slopes. Part A : Development and Validation”, *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 506–519.
- C66. Kourkoulis R., Gelagoti F., **Anastasopoulos I.**, Gazetas G. (2009), “Piles for Stabilising Seismically Precarious Slopes. Part B : Parametric Analysis and Design Charts”, *Proc. 3rd Greece–Japan Workshop : Seismic Design, Observation, Retrofit of Foundations*, Santorini 22–23 September, pp. 520–533.
- C65. Gazetas G., **Anastasopoulos I.**, Loli M., Gerolymos N. (2009), “Nonlinear Inelastic Seismic Response of Slender Bridge Pier on Surface Foundation”, *Proc. 2nd International Conference on Computational Dynamics and Earthquake Engineering – COMPDYN*.
- C64. **Anastasopoulos I.**, Loli M., Gerolymos N., Apostolou M., Gazetas G. (2008), “Bridge Pier–Foundation : Beyond the Conventional Seismic Capacity Design”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 1866 (*in Greek*).
- C63. **Anastasopoulos I.**, Drosos V., Georgarakos T., Kourkoulis R., Gazetas G. (2008), “Design of Rail and Road Bridges against Seismic Faulting. Part 1 : Foundation”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 1954 (*in Greek*).
- C62. **Anastasopoulos I.**, Drosos V., Georgarakos T., Kourkoulis R., Gazetas G. (2008), “Design of Rail and Road Bridges against Seismic Faulting. Part 2 : Superstructure”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 1955 (*in Greek*).
- C61. **Anastasopoulos I.**, Gazetas G., Malios I. (2008), “Major Domokos (ΣΓ26) Rail Bridge : Design against Seismic Faulting”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 1956 (*in Greek*).
- C60. **Anastasopoulos I.**, Gazetas G. (2008), “Kamena Vourla Cut & Cover Tunnels : Analysis of the Consequences of a Possible Fault Rupture”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 1887 (*in Greek*).
- C59. **Anastasopoulos I.**, Gerolymos N., Drosos V., Kourkoulis R., Georgarakos T., Gazetas G. (2008), “Rion–Antirion Immersed Tunnel : Design for Combined Faulting Deformation and Subsequent Seismic Shaking”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 1976 (*in Greek*).
- C58. **Anastasopoulos I.**, Bransby F., (2008), “Design of Slab Foundations against Seismic Faulting. Part I : Free–Field”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 1957 (*in Greek*).
- C57. **Anastasopoulos I.**, Bransby F., (2008), “Design of Slab Foundations against Seismic Faulting. Part 2 : Soil – Structure Interaction ”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 1958 (*in Greek*).
- C56. Giannakou A., Gerolymos N., **Anastasopoulos I.**, Gazetas G. (2008), “Seismic Behaviour of Inclined Piles: Role Beneficial or Detrimental ?”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 1856 (*in Greek*).

- C55. Garini E., **Anastasopoulos I.**, Gazetas G. (2008), “Paradoxical Sliding Behavior of Block Triggered by Near–Fault Ground Motions”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 2035 (in Greek).
- C54. Gazetas G., **Anastasopoulos I.** (2008) “Case Histories of Foundations on top of a Rupturing Normal Fault during the Kocaeli 1999 Earthquake”, *Proc. 6th International Conference on Case Histories in Geotechnical Engineering and Symposium in honor of professor James K. Mitchell*, Arlington, VA (USA), August 11-16.
- C53. Gazetas G., **Anastasopoulos I.** (2008), “Structures on Faults”, *Proc. Symposium «National Technical University of Athens in the Forefront of Research & Technology»*, Αθήνα, NTUA, 6–7 December (in Greek).
- C52. Bruni S., **Anastasopoulos I.**, Alfi S., Van Leuven A., Apostolou M., and Gazetas G. (2008), “Effects of train impacts on urban turnouts: modeling and validation through measurements”, *Proc. 10th International Conference on Applications of Advanced Technologies in Transportation*, 27-30 May 2008.
- C51. **Anastasopoulos I.**, Alfi S., Bruni S., Van Leuven A., Apostolou M., and Gazetas G. (2008), “Advanced methods for the reduction of train impacts on urban turnouts: analytical evaluation and real-scale verification of new concepts”, *Proc. 10th International Conference on Applications of Advanced Technologies in Transportation*, 27-30 May 2008.
- C50. **Anastasopoulos I.**, Gazetas G., Gerolymos N., Bransby M. F., and Davies M.C.R. (2008), “Normal Fault Rupture Propagation Through Sand : A Simplified Semi–Analytical Approach”, *Proc. BGA International Conference on Foundations*, Dundee, Scotland, 24–27 June 2008.
- C49. **Anastasopoulos I.**, Georgarakos T., Drosos V., Gazetas G. (2008), “Fault Rupture–Foundation Interaction : Physical Modeling at the New Experimental Facility of NTUA”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 1847 (in Greek).
- C48. Georgarakos T., Drosos V., **Anastasopoulos I.**, Gazetas G. (2008), “Experimental Verification of the Seismic Response of Reinforced Soil Walls in the New Shaking Table of the NTUA Soil Mechanics Laboratory”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 1996 (in Greek).
- C47. **Anastasopoulos I.**, Gazetas G. (2008), “Seismic Design of Buildings against Tectonic Faulting”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 1842 (in Greek).
- C46. Gazetas G., **Anastasopoulos I.**, Georgarakos T., Drosos V. (2008), “NTUA Soil Mechanics Laboratory : New Division for the Simulation of the Seismic Response of Soil–Structure Systems”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 2023 (in Greek).
- C45. **Anastasopoulos I.**, Prassa Ch., Giannakos S., Gazetas G. (2008), “ Seismic Response of Geofoam-Isolated Retaining Walls”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 2063 (in Greek).
- C44. **Anastasopoulos I.**, Antonakos G., Giannakos S., Gazetas G. (2008), “Interaction of Foundation Beam with a Reverse Fault Rupture ”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 2097 (in Greek).
- C43. Pelli-Tsaltaki A., **Anastasopoulos I.**, Gazetas G. (2008), “Analysis of failure of the Düzce-

- Bolu viaduct bearings in the 12-11-1999 Turkey earthquake”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 2088 (in Greek).
- C42. Panos I., Georgiannou V., **Anastasopoulos I.**, (2008), “Analytical Simulation of the Experimental Response of Sand to Bender Element Excitation”, *Proc. 3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, 5–7 November, Paper 2055 (in Greek).
- C41. **Anastasopoulos I.**, Kourkoulis R., Gazetas G., Halkias B., Papadimitriou F. (2008), “Development of Earthquake Crisis Management strategic plan for Metropolitan Highway Systems”, *Proceedings 17th Congress of IABSE*, September 17–19, Chicago, USA.
- C40. Gazetas G., **Anastasopoulos I.** (2007), “Interaction of Foundations with a Rupturing Fault: Case Histories from Gölcük 1999”, *Proc. Turkish Spec. Symposium in Soil Mechanics and Geotechnical Eng. on "Soil-Structure Interaction in Theory and Practice"*, November 8–10.
- C39. S. Alfi, **I. Anastasopoulos**, S. Bruni, G. Gazetas, and A. Van Leuven (2007), “Reducing Impacts At Turnouts : Modelling Approaches And Measurements”, *Proceedings, Railway Engineering 2007*, 20–21 June, University of Westminster, London, U.K.
- C38. **Anastasopoulos I.**, Gazetas G., Bransby M.F., Davies M.C.R., El Nahas A. (2007), “Shallow Foundations over Rupturing Normal Faults : Analysis and Experiments”, *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering*, Thessaloniki, Greece, 25–28 June 2007.
- C37. **Anastasopoulos I.**, Gerolymos N., Drosos V., Kourkoulis R., Georgarakos T., Gazetas G. (2007), “Behaviour of Deep Immersed Tunnel under Major Fault Rupture Deformation”, *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering*, Thessaloniki, Greece, 25–28 June 2007.
- C36. **Anastasopoulos I.**, and Gazetas G. (2007), “Interaction of Shallow and Deep Foundations with a Rupturing Normal Fault”, *Proceedings of the 2nd Japan-Greece Workshop on Seismic Design, Observation, and Retrofit of Foundations*, Tokyo, Japan, 3–4 April, pp. 197–211.
- C35. Gazetas G., **Anastasopoulos I.**, Gerolymos N., Drosos V., Kourkoulis R., Georgarakos T. (2007), “Deep Immersed Tunnel under Combined Major Fault Rupture Deformation and Subsequent Strong Seismic Shaking”, *Proceedings of the 2nd Japan-Greece Workshop on Seismic Design, Observation, and Retrofit of Foundations*, Tokyo, 3–4 April, pp. 1–26.
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- C33. Garini E., Gazetas G., and **Anastasopoulos I.** (2007), “Rupture–Directivity and Fling–Step Effects on Newmark Block Sliding”, *Proceedings of the 4th International Conference on Earthquake Geotechnical Engineering*, Thessaloniki, Greece, 25–28 June 2007.
- C32. Kourkoulis R., Gelagoti F., **Anastasopoulos I.**, Gazetas G. (2007), “Interaction of Earthquake-Triggered Landslide with Foundation-Structure Systems”, *Proceedings of the 2nd Japan-Greece Workshop on Seismic Design, Observation, and Retrofit of Foundations*, Tokyo, Japan, 3–4 April, pp. 51–63.
- C31. Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2006), “Analysis of Soil–Structure Interaction during Earthquake–induced Landslides on Strain–Softening Soil”, *Proceedings of the 1st European Conference on Earthquake Engineering and Seismology*, Geneva, Switzerland, 3–8 September.

- C30. **Anastasopoulos I.**, Gazetas G. (2006), “Design of Rodinion Bridge against Possible Tectonic Dislocation”, *Proc. 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Xanthi, 31/5 – 2/6, Vol. 2, pp. 51–56 (in Greek).
- C29. **Anastasopoulos I.**, Gazetas G., Sigalas I. (2006), “Design of O.E.K. Housing Complex against Displacement of the Atalanti Fault : Soil–Foundation–Structure Interaction”, *Proc. 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Xanthi, 31/5 – 2/6, Vol. 2, pp. 57–64 (in Greek).
- C28. Garini E., Gerolymos N., **Anastasopoulos I.**, Gazetas G. (2006), “Analysis of Pile Against Large Displacements in Liquefied Soil ”, *Proc. 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Xanthi, 31/5 – 2/6, Vol. 2, pp. 127–134 (in Greek).
- C27. Gazetas G., Dakoulas P., **Anastasopoulos I.** (2006), “Failure of Harbor Quaywalls in the Lefkada 14-8-2003 Earthquake”, *Proc. 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Xanthi, 31/5 – 2/6, Vol. 2, pp. 159–166 (in Greek).
- C26. Klimis N., Apostolou M., Anastasiadis A., **Anastasopoulos I.**, Gazetas G. (2006), “Nestos Bridge: Risk of Extended Liquefaction, Counter-Measures with Piles and Soil Improvement”, *Proc. 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Xanthi, 31/5 – 2/6, Vol. 3, pp. 207–214 (in Greek).
- C25. Kourkoulis R., **Anastasopoulos I.**, Gazetas G. (2006), “Rion–Antirion Bridge : Geotechnical Static and Dynamic Analysis of Pier M3”, *Proc. 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Xanthi, 31/5 – 2/6, Vol. 3, pp. 215–222 (in Greek).
- C24. **Anastasopoulos I.**, Gazetas G., Pavlides S. (2006), “Stratoni Tailings Dams: Analysis of Ierissos Fault Rupture Propagation”, *Proc. 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Xanthi, 31/5 – 2/6, Vol. 3, pp. 319–326 (in Greek).
- C23. Giannakou A., Nomikos P., **Anastasopoulos I.**, Youta–Mitra P., Sofianos A., Gazetas G. (2006), “Dynamic Response of Tunnels – Analysis of Seismic Failure Case History”, *Proc. 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Xanthi, 31/5 – 2/6, Vol. 3, pp. 445–452 (in Greek).
- C22. **Anastasopoulos I.**, Gazetas G., Sigalas I., Pavlides S. (2006), “Failures and Successful Performance of Buildings Subjected to Fault Induced Displacement : Case Histories from the Kocaeli 1999 Earthquake”, *Proc. 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Xanthi, 31/5 – 2/6, Vol. 2, pp. 65–72 (in Greek).
- C21. Gerolymos N., **Anastasopoulos I.**, Gazetas G., Tsimonos Th. (2006), “OAKA : Retaining Structure Design of the Opening Ceremony Shaft”, *Proc. 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Xanthi, 31/5 – 2/6, Vol. 2, pp. 517–524 (in Greek).
- C20. **Anastasopoulos I.**, Gerolymos N., Drosos V., Gergarakos T., Kourkoulis R., Gazetas G. (2006), “Dynamic Analysis and Seismic Design of Immersed Tunnel : A Parametric Study”, *Proc. 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Xanthi, 31/5 – 2/6, Vol. 3, pp. 415–422 (in Greek).
- C19. **Anastasopoulos I.**, Apostolou M., Gazetas G., Tsimonos Th. (2006), “Kamena Vourla Cut & Cover Tunnels: Analysis of the Consequences of a Possible Fault Rupture”, *Proc. 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Xanthi, 31/5 – 2/6, Vol. 3, pp. 423–428 (in Greek).
- C18. **Anastasopoulos I.** & Gazetas G. (2006), “Design of Foundations and Structures Against

Fault Displacement”, *ETC-12 Workshop*, Athens, Greece, January 20–21.

- C17. Gazetas G., **Anastasopoulos I.**, and Dakoulas P. (2005), “Failure of harbor quaywalls in the Lefkada 2003 earthquake”, *Proceedings of Geotechnical Earthquake Engineering Satellite Conference - Performance Based Design in Earthquake Geotechnical Engineering: Concepts and Research*, Osaka, Japan, 10 September 2005, pp. 62–69.
- C16. Giannakou A., Nomikos P., **Anastasopoulos I.**, Sofianos A., Gazetas G. & P. Yiouta-Mitra (2005), “Seismic Behaviour of Tunnels in Soft Soil: Parametric Numerical Study and Investigation on the Causes of Failure of the Bolu Tunnel (Düzce, Turkey, 1999)”, *Proceedings of the ITA-AITES 2005 World Tunnel Congress & 31st General Assembly*, Istanbul- Turkey, May 7–12, 2005.
- C15. **Anastasopoulos I.** & Gazetas G. (2005), “Design Against Fault Rupture: Methodology and Applications in Greece”, *Proceedings of the 1st Greece – Japan Workshop: Seismic Design, Observation and Retrofit of Foundations*, Athens, October 11–12, 2005, pp. 345–366.
- C14. **Anastasopoulos I.** (2005), “Behaviour of Foundations over Surface Fault Rupture: Analysis of Case Histories from the Izmit (1999) Earthquake”, *Proceedings of the 16th International Conference on Soil Mechanics & Earthquake Engineering*, Osaka, Japan, September 12–16, 2005, pp. 2623–2626.
- C13. Gazetas, G., **Anastasopoulos I.**, & Gerolymos, N. (2005), “Overturning of Buildings in Adapazari, during the 1999 Kocaeli earthquake”, *Proceedings of the 2nd International Conference on Urban Earthquake Engineering*, Tokyo, March 7–8, 2005, pp. 193–198.
- C12. Gazetas G., Apostolou M., **Anastasopoulos I.** (2004), “Seismic Bearing Capacity and Uplifting Foundations: Adapazari 1999”, *Proceedings of the 5th International Conference on Case Histories in Geotechnical Engineering*, New York, April 13–17, 2004.
- C11. **Anastasopoulos I.**, Gazetas G., Psarropoulos P. (2004), “On the Seismic Response of Flexible Retaining Structures”, *Proceedings of the 11th International Symposium on Soil Dynamics and Earthquake Engineering*, University of California, Berkeley, 7-9 January, 2004, Vol. 1, pp. 96–103.
- C10. Gazetas G., Gerolymos N., and **Anastasopoulos I.** (2004), “The Behaviour of Three Athens Metro Underground Structures in the Parnitha (Athens) Earthquake”, *Proceedings of the 11th International Symposium on Soil Dynamics and Earthquake Engineering*, University of California, Berkeley, 7–9 January, 2004, Vol. 1, pp. 390–397.
- C9. Gazetas G., **Anastasopoulos I.**, Garini E. (2003), “The Lefkada (14-8-03) Earthquake: Failures in Harbour Quaywalls”, *Proc. 3rd National Conference of Ports and Harbours*, Athens 24–27 November, pp. 83–110 (*in Greek*).
- C8. Gazetas G., Apostolou M. and **Anastasopoulos I.** (2003), “Seismic Uplifting of Foundations on Soft Soil, with Examples from Adapazari (Izmit 1999, Earthquake), *BGA International Conference on Foundations – Innovations, Observations, Design & Practice in the University of Dundee*, Scotland, September 2–5, pp. 37–50.
- C7. Apostolou M., Gazetas G., Makris N., **Anastasopoulos I.** (2003), “Rocking of Foundations under Strong Seismic Excitation”. *Proceedings of Fib International Symposium on Concrete Structures in Seismic Regions*, Athens, 6–8 May.
- C6. Fardis N., Georgarakos P., Gazetas G., **Anastasopoulos I.** (2003), “Sliding Isolation of Structures : Effect of Horizontal and Vertical Acceleration” *Proceedings of Fib International Symposium on Concrete Structures in Seismic Regions*, Athens, 6–8 May.
- C5. Gazetas G. , Gerolymos N., **Anastasopoulos I.**, Novack M., Benissi M. (2003), “The

Behaviour of Three Athens Metro Underground Structures in the Parnitha (Athens) Earthquake”, *Proceedings of Fib International Symposium on Concrete Structures in Seismic Regions*, Athens, 6–8 May.

- C4. **Anastasopoulos I.**, Gazetas G., Psarropoulos Pr. (2003), “Flexible Retaining Walls: Why they do not often Fail in Strong Seismic Shaking”, *Proceedings of Fib International Symposium on Concrete Structures in Seismic Regions*, Athens, 6–8 May.
- C3. Syngros C., **Anastasopoulos I.**, Mylonakis G., Gazetas G. (2003), “The Collapse of Fukae (Hanshin Expressway) Bridge, Kobe 1995 : Contribution of Soil–Structure Interaction, Reconstruction and Isolation”, *Proceedings of the Fib International Symposium on Concrete Structures in Seismic Regions*, Athens, 6–8 May.
- C2. Apostolou M., **Anastasopoulos I.**, Gazetas G. (2002), “Analysis of Sliding and Overturning of Monuments in the Parnitha Earthquake for Estimating the Ground Acceleration”, *Proc. 2nd National Conference on Earthquake Engineering and Engineering Seismology*, Thessaloniki, 28–30 November (*in Greek*).
- C1. **Anastasopoulos I.**, Gerolymos N., Gazetas G. (2001), “Possible Causes of the Collapse of an Approach Span of the Nishinomiya-ko Bridge: Kobe 1995”, *Proc. 4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Athens, Vol. 2, pp. 83–90 (*in Greek*).

Other Scholarly Publications

- O9. **Anastasopoulos I.** (2011), “Analysis and Evaluation of Damage to a 5-storey Building: Differential Settlement due to Erection of Neighboring Building or Construction Defects ?”, *Journal of the Hellenic Society of Civil Engineers*, No. 397 (*in Greek*).
- O8. Gazetas G., **Anastasopoulos I.**, Georgarakos T., Drosos V. (2010), “NTUA Laboratory of Soil Mechanics : New Division for Experimental Simulation of Soil – Structure Systems”, *Journal of the Hellenic Society of Civil Engineers* No. 384 (*in Greek*).
- O7. **Anastasopoulos I.**, Gazetas G. (2009), “Design of Bridges against Tectonic Deformation”, *Proc. Workshop of the Hellenic Society of Bridges*, Patras, 12 October (*in Greek*).
- O6. Gazetas G., **Anastasopoulos I.**, Drosos V. Georgarakos T., Kourkoulis R. (2007), “Seismic Performance of Reinforced-earth Retaining Walls in the New NTUA Shaking Table”, *Proc., Workshop: Geotechnical Applications of Geosynthetic Materials*, Athens, 11 January (*in Greek*).
- O5. **Anastasopoulos I.** (2006), “New Shaking Table at the Soil Mechanics Laboratory of the School of Civil Engineering of NTUA”, *Journal of the Hellenic Society Hellenic Society of Soil Mechanics & Foundation Engineering*, Vol. 6, pp. 20–23 (*in Greek*).
- O4. Gazetas G., **Anastasopoulos I.** (2004), “Design of Foundation and Temporary Retaining Structure of the International Broadcasting Center”, *NTUA Publication: “The National Technical University of Athens and the Olympic Games of Athens 2004”* (*in Greek*).
- O3. Gazetas G., Gerolymos N., **Anastasopoulos I.** (2004), “Temporary Retaining Structure of the Opening Ceremony Shaft”, *NTUA Publication: “The National Technical University of Athens and the Olympic Games of Athens 2004”* (*in Greek*).
- O2. **Anastasopoulos I.** (1999), “Kobe : Unique Experience for the Students of NTUA”, *Journal of the Technical Chamber of Greece*, Vol. 2058, July 5 (*in Greek*).
- O1. **Anastasopoulos I.** (1999), “Field Trip to Kobe – Unique Experience for the Students of NTUA”, *Journal TECHNIKA*, June, pp. 26–32 (*in Greek*).

Dissertations and Theses

- III. **Anastassopoulos, I.** (2005), “Fault Rupture–Soil–Foundation–Structure Interaction”, *Ph.D. Dissertation*, School of Civil Engineering, National Technical University, Athens.
- II. **Anastassopoulos, I.** (2000), *Fault Tolerance and Incident Detection Using Fourier Transforms*, M.Sc. Thesis, School of Civil Engineering, Purdue University, West Lafayette, IN., USA.
- I. **Anastassopoulos, I.** (1999), “Analysis of Failure of 2 Bridges in the Kobe–1995 Earthquake and the Role of Soil”, *Diploma Thesis*, School of Civil Engineering, National Technical University, Athens.

HONORS, AWARDS, AND RECOGNITION

- 2013 SP Lecturer, *Conference to Commemorate the Legacy of Ralph B. Peck, 7th Int. Conference on Case Histories in Geotechnical Engineering and Symposium in Honor of Clyde Baker*, Wheeling, IL (Chicago, IL area), April 29–May 4, 2013.
- 2012 Shamsher Prakash Research Award, for International Contributions to Geotechnical Earthquake Engineering, *Shamsher Prakash Foundation*.
- 2012 Young Researcher Award in Earthquake Geotechnical Engineering, TC203, *Int. Society for Soil Mechanics and Geotechnical Engineering* (inaugural recipient).
- 2012 Keynote Speaker, *Second International Conference on Performance-Based Design in Earthquake Geotechnical Engineering*, Taormina, Italy, May 28–30, 2012.
- 2012 Invited Speaker, *EERI Friedman Family Visiting Professionals Program*, Cornell University, February 23, 2012.
- 2012 Journal publication J44 among the Top 10 Most Downloaded Soil Dynamics and Earthquake Engineering Articles
- 2012–present Editorial Board Member, *Proceedings of the ICE–Geotechnical Engineering*
- 2011 Session Chairman, *4th Japan–Greece Workshop on Seismic Design of Foundations*, Kobe, Japan, October 6–7, 2011.
- 2010 Co-General Reporter, *5th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics and Symposium in Honor of Professor I. M. Idriss*, San Diego, CA, May 24–29, 2010.
- 2009–2012 Invited Lecturer at Universities in the US and New Zealand (see Invited Talks)
- 2009 Invited Speaker, *International Soil–Foundation–Structure Interaction (SFSI) Workshop*, Auckland, New Zealand, November 26–27, 2009.
- 2009 Session Chairman, *International Soil–Foundation–Structure Interaction (SFSI) Workshop*, Auckland, New Zealand, November 26–27, 2009.
- 2008 Distinguished Scientist Award, *Ministries of Defence and Education of Greece*. This award recognizes outstanding achievement in research and academics.
- 2008 Coordinator, *Special Session on Seismic Faulting, 3rd Nat. Conf. on Earthquake Engineering and Engineering Seismology*, Athens, November 5–7, 2008.
- 2007 Committee Member, *Study Group for the Protection of the Cultural Heritage, Monument–Soil Interaction*, Greek Earthquake Planning & Protection Organization.
- 2005 National Delegate for Greece, *3rd International Young Geotechnical Engineer Conference (3iYGEC)*, Osaka, Japan, September 12–15, 2005.
- 2001 Best Diploma Thesis Award and Cash Prize, *Technical Chamber of Greece (TEE)*.

REFEREE WORK FOR JOURNALS

- Advances in Structural Engineering
- Archive of Applied Mechanics
- Bulletin of Earthquake Engineering
- Computers and Geotechnics
- Engineering Structures
- Geotechnical and Geological Engineering
- Géotechnique
- Journal of Applied Mechanics
- Journal of Earthquake Engineering
- Journal of Engineering Science and Technology Review
- Journal of Geotechnical and Geoenvironmental Engineering, ASCE
- Meccanica
- Natural Hazards
- Proceedings of the ICE–Construction Materials
- Soil Dynamics & Earthquake Engineering
- Structural Engineering and Mechanics

PROFESSIONAL MEMBERSHIPS

- International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE)
- Earthquake Engineering Research Institute (EERI)
- International Association for Bridge and Structural Engineering (IABSE)
- International Society for Rock Mechanics (ISRM)
- Association of Civil Engineers of Greece (ΣΠΙΜΕ)
- Hellenic Society of Earthquake Engineering (ETAM)
- Hellenic Society of Soil Mechanics & Foundation Engineering (EEEEΓΜ)
- Hellenic Institute of Transportations Engineers (ΣΕΣ)

INVITED LECTURES and SEMINARS

1. Special Presentation Lecture: Structural damage of a 5-storey building: differential settlement due to construction of an adjacent building or because of construction defects ?, *Conference to Commemorate the Legacy of Ralph B. Peck, 7th Int. Conf. on Case Histories in Geotechnical Engineering and Symposium in Honor of Clyde Baker, Wheeling, IL, April 29–May 4, 2013.*
2. Keynote Lecture: Rocking Isolation as an Alternative Seismic Design Method: Application to the Retrofit of Existing Structures, *2nd International Conference on Performance-Based Design in Earthquake Geotechnical Engineering, Taormina, Italy, May 28–30, 2012.*
3. Invited Seminar: Rocking Isolation as an Alternative Seismic Design Method: Application to New and Existing Structures, *University of Illinois at Urbana Champaign, February 28, 2012.*
4. Invited Lecture: Design of Infrastructures against Seismic Faulting, *Friedman Family Visiting Professionals Program, EERI, Cornell University, February 23, 2012.*
5. Invited Lecture: Design of Bridges against Faulting-induced Deformation, *Takenaka Research & Development Institute, Tokyo, Japan, April 12, 2010.*
6. Invited Seminar: Design of Structures against Tectonic Dislocation: Analysis, Experiments, and Simplified Design Methods, *University of California, Berkeley, February 10, 2010.*

7. Invited Seminar: Advanced Concepts to Reduce Noise and Vibration on Urban Railway Turnouts: Numerical Analysis taking account of Soil–Structure Interaction and Validation through Track Measurements, *Purdue University*, February 9, 2010.
8. Invited Seminar: Seismic soil–structure interaction with full mobilization of soil failure mechanisms and uplifting at the soil–foundation interface, *State University of New York at Buffalo*, February 3, 2010.
9. Invited Seminar: Mobilizing soil failure mechanisms for seismic protection of structures: analysis and shaking table tests, Invited Seminar, *Columbia University*, February 2, 2010.
10. Invited Seminar: Seismic soil-structure interaction with mobilization of soil failure mechanisms and uplifting at the soil–foundation interface, *Rensselaer Polytechnic Inst.*, February 1, 2010.
11. Invited Seminar: Interaction of a rupturing (normal or thrust) fault with shallow, pile, and caisson foundations, *Cornell University*, January 27, 2010.
12. Invited Seminar: Seismic soil-structure interaction with full mobilization of soil failure mechanisms and uplifting: numerical analysis and validation of constitutive models through UC Davis and TRISEE data, *University of California, Davis*, December 10, 2009.
13. Invited Speaker: Beyond conventional capacity design: towards a new design philosophy, *International Workshop on Soil-Foundation-Structure Interaction (SFSI 09)*, November 26–27 2009, Auckland, New Zealand.
14. Invited Speaker: Kinematic Response of Batter Pile Foundation: Centrifuge Tests, *International Workshop on Soil-Foundation-Structure Interaction (SFSI 09)*, November 26–27, 2009, Auckland, New Zealand.
15. Invited Seminar: Numerical analysis and methodology for design of bridges against tectonic deformation, *University of Auckland, New Zealand*, November 24, 2009.
16. Invited Seminar: Towards a reversal of seismic Capacity Design for bridges : Numerical analysis and Shaking table tests, *University of Auckland, New Zealand*, November 24, 2009.
17. Invited Seminar: Foundation-structure systems subjected to Fault Rupture: Calibration / validation of constitutive models through laboratory experiments (centrifuge and 1-g model tests) and analysis of buildings, *University of Auckland, New Zealand*, November 24, 2009.
18. Invited Lecture: Design of Bridges against Faulting, *Hellenic Society for Bridge Engineering*, Patras, October 12, 2009.
19. Invited Lecture: Design against Seismic Faulting”, *3rd National Conference of Earthquake Engineering and Engineering Seismology*, Athens, November 5-7, 2008.
20. Invited Lecture: Fault Rupture–Soil–Foundation–Structure Interaction, *OTM Consulting Engineers*, Athens, December 1, 2006.

PRESENTATIONS IN CONFERENCES AND WORKSHOPS

1. The Role of Soil–Foundation–Structure Interaction on the Seismic Performance of an Existing 3-storey Building: Shaking Table Testing, *15th International Conference on Earthquake Engineering*, Lisbon, Portugal, September 24-28, 2012.
2. Effects of permanent displacements due to near fault earthquakes – Shaking table tests of classical columns, *Special Session on “Earthquake protection of cultural heritage”, 15th International Conference on Earthquake Engineering*, Lisbon, Portugal, September 24-28, 2012.
3. Nonlinear soil–foundation interaction: numerical analysis, *2nd International Conference on Performance-Based Design in Earthquake Geotechnical Engineering*, Taormina, Italy, May 28–30, 2012.

4. Effectiveness of shallow soil improvement on the performance of rocking-isolated bridge piers: monotonic and cyclic pushover testing, *2nd International Conference on Performance-Based Design in Earthquake Geotechnical Engineering*, Taormina, Italy, May 28–30, 2012.
5. Nonlinear soil–foundation interaction: an experimental study on sand, *2nd International Conference on Performance-Based Design in Earthquake Geotechnical Engineering*, Taormina, Italy, May 28–30, 2012.
6. Bridge pier founded on pile-group: ductile design against faulting, *International Conference: Innovations on Bridges and Soil–Bridge Interaction, IBSBI 2011*, Athens, Greece, October 13–15, 2011.
7. Normal and Reverse Fault Rupture Interaction with Caisson Foundations : Centrifuge Modeling and Numerical Simulation, *4th Japan–Greece Workshop on Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage*, Kobe, Japan, October 6–7, 2011.
8. 1-g Experimental Investigation of the Metaplastic Rocking Response of 1-dof Oscillators on Shallow Footings, *4th Japan–Greece Workshop on Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage*, Kobe, Japan, October 6–7, 2011.
9. Cyclic Pushover and Shake Table Testing of Bridge Pier with Foundation Uplifting and Soil Yielding, *4th Japan–Greece Workshop on Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage*, Kobe, Japan, October 6–7, 2011.
10. Seismic Design of Bridges against Faulting, *6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, Greece, September 29–October 1, 2010.
11. 3D Seismic Performance of Bridge Pier founded on a Pilegroup: Towards a New Design Philosophy, *6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, Greece, September 29–October 1, 2010.
12. Experimental Study of Bridge Pier with under-designed Foundation, *6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering*, Volos, Greece, September 29–October 1, 2010.
13. New Division for Experimental Simulation of the Seismic Response of Soil–Structure Systems, Laboratory of Soil Mechanics, NTUA, *3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, Greece, November 5–7, 2008.
14. Rion–Antirion Immersed Tunnel: Design for Combined Faulting Deformation and Subsequent Seismic Shaking, *3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, Greece, November 5–7, 2008.
15. The Major Rail Bridge of Domokos: Design against Seismic Faulting, *3rd National Conference on Earthquake Engineering & Engineering Seismology*, Athens, Greece, November 5–7, 2008.
16. Behaviour of Deep Immersed Tunnel under Major Fault Rupture Deformation”, *4th International Conference on Earthquake Geotechnical Engineering*, Thessaloniki, Greece, June 25–28, 2007.
17. Interaction of Shallow and Deep Foundations with a Rupturing Normal Fault, *2nd Japan–Greece Workshop on Seismic Design, Observation, and Retrofit of Foundations*, Tokyo, Japan, April 3–4, 2007.
18. Research Project for the Undersea Rion–Antirion Rail Link: Alternative Construction Solutions, *Workshop for the 9th Semester Field Trip to Kobe & Tokyo*, Technical Chamber of Greece, Athens, March 24, 2007.
19. Seismic Performance of Bar-mat Retaining Walls at the New Shaking Table of NTUA, *Workshop : Geotechnical Applications of Geosynthetics*, Athens, Greece, January 11, 2007,
20. Analysis of Failure of 2 Bridges, the Nikawa Landslide, Kansai International Airport, and the Tokyo Western Art Museum, *Workshop for the 9th semester Field Trip to Kobe & Osaka*, National Technical University, NTUA, Athens, Greece, June 13, 2006.

21. Review of the selected design for each test site in terms of performance and iterative selection: Sensitivity Analysis, *TURNOUTS General Meeting*, Mechellen, Belgium, June 9, 2006,
22. Dynamic Analysis and Seismic Design of Immersed Tunnel: A Parametric Study, *5th Hellenic Conference on Geotechnical & Geoenvironmental Engineering*, Xanthi, Greece. May 31–June 2, 2006.
23. Kamena Vourla Cut & Cover Tunnels: Analysis of the Consequences of a Possible Fault Rupture, *5th Hellenic Conference on Geotechnical & Geoenvironmental Engineering*, Xanthi, Greece, May 31–June 2, 2006.
24. Design of Rodinion Bridge against Possible Tectonic Dislocation, *5th Hellenic Conference on Geotechnical & Geoenvironmental Engineering*, Xanthi, Greece. May 31–June 2, 2006.
25. Design of O.E.K. Housing Complex against Displacement of the Atalanti Fault: Soil–Foundation–Structure Interaction”, *5th Hellenic Conference on Geotechnical & Geoenvironmental Engineering*, Xanthi, Greece. May 31–June 2, 2006.
26. Failures and Successful Performance of Buildings Subjected to Fault Induced Displacement: Case Histories from the Kocaeli 1999 Earthquake, *5th Hellenic Conference on Geotechnical & Geoenvironmental Engineering*, Xanthi, Greece. May 31–June 2, 2006.
27. Stratoni Tailings Dams: Analysis of Fault Rupture Propagation, *5th Hellenic Conference on Geotechnical & Geoenvironmental Engineering*, Xanthi, Greece. May 31–June 2, 2006.
28. Fault Rupture–Soil–Foundation–Structure Interaction: Analysis, *Symposium on Foundation Behaviour during Strong Earthquakes*, Santorini, Greece, May 26–27, 2006.
29. Review of the selected design for each test site in terms of performance and iterative selection: 3D Finite Element Modelling of New Concept Turnouts, *TURNOUTS General Meeting*, Mondorf, Luxemburg, November 18, 2005.
30. Design against Fault Rupture: Methodology and Applications in Greece, *1st Greece–Japan Workshop: Seismic Design, Observation and Retrofit of Foundations*, Athens, Greece, October 11–12, 2005.
31. Behaviour of Foundations over Surface Fault Rupture: Analysis of Case Histories from the Izmit (1999) Earthquake, *3rd International Young Geotechnical Engineer Conference*, Osaka, Japan, September 12–15, 2005.
32. Behaviour of Foundations over Surface Fault Rupture: Analysis of Case Histories from the Izmit (1999) Earthquake”, *16th International Conference on Soil Mechanics & Earthquake Engineering*, Osaka, Japan, September 12–1, 2005.
33. Modelling of turnout systems using 3D non linear model: Sensitivity Analysis, *TURNOUTS General Meeting*, Bilbao, Spain, May 27, 2005.
34. Foundations of the Olympic Complex of Athens: Olympic Stadium and Velodrome Arched Roofs, Wall of Nations, Entrance Gates, Altar, and Footbridges, *Workshop: The Olympic Games “Athens 2004” and the National Technical University of Athens*, Athens, Greece, December 9, 2004,
35. Soil–Structure–Interaction in Adapazari: Observations & Analysis, *NTUA–TUB Workshop*, Athens, Greece, December 6, 2004.
36. Modelling of turnout systems using 3D non linear model: Analysis of the RATP and STIB Turnouts”, *TURNOUTS General Meeting*, Bari, Italy, November 5, 2004.
37. Analysis of Failure of 2 Bridges, the Nikawa Landslide, Kansai International Airport, Tokyo Aqua-Line, and the Tokyo Western Art Museum, *Workshop for the 9th semester Field Trip to Kobe & Tokyo*, Athens, Greece, May 25, 2004.
38. Fault Rupture–Soil–Structure Interaction / Numerical and Analytical Modelling: Analysis of the Denizevler Case Histories (Turkey 1999), *QUAKER General Meeting*, Dundee, Scotland, UK, April 29–30, 2004.

39. Fault Rupture–Soil–Structure Interaction / Numerical and Analytical Modelling: Finite Element Analysis Methodology, *QUAKER General Meeting*, Athens, Greece, December 14–15, 2003.
40. Fault Rupture–Soil–Structure Interaction / Field Assessment: Real Case Histories and Preliminary Finite Element Analysis, *QUAKER Gen. Meet.*, Nantes, France, July 14–15, 2003.
41. Investigation on the Causes of Failure of Turnout Baseplate Assemblies, *TUB–NTUA Workshop*, Berlin, Germany, May 26, 2003.
42. Flexible Retaining Walls: Why they do not often Fail in Strong Seismic Shaking, *Fib International Symp. on Conc. Struct. in Seismic Regions*, Athens, Greece, May 6–8, 2003.
43. Analysis of Failure of 2 Bridges, and the Nikawa Landslide, *Workshop for the 9th semester Field Trip to Kobe & Tokyo*, Athens, Greece, April 10, 2003.
44. Possible Collapse Reasons of an Access Span of the Nishinomiya-ko Bridge: Kobe 1995, *4th Hellenic Conf. on Geotechnical & Geoenv. Eng.*, Athens, Greece, May 30–June 1, 2001.

FUNDED RESEARCH ACTIVITIES

- | | |
|--------------|--|
| 2012–present | <p>RARE: Development of Earthquake Rapid Response System for Metropolitan Motorways
 Coordinator: Professor G. Gazetas
 Funding: FP7–Environment (EC), Budget: € 790,000 (NTUA: € 280,000)
 <u>Role:</u> Deputy PI, Proposal Preparation (with R. Kourkoulis and F. Gelagoti)</p> |
| 2012–present | <p>AIOLOS: Resolution of Complex Problems in the Analysis of “Next Generation” Wind Turbine Towers
 Coordinator: Professor E. Sapountzakis
 Funding: Greek Secretariat of Research and Technology, Budget: € 600,000
 <u>Role:</u> Researcher, Proposal Preparation (with G. Gazetas for LSM)</p> |
| 2012–present | <p>UPGRADE: Novel Methodology for the Assessment of the Seismic Vulnerability and Rehabilitation of Harbor Structures
 Coordinator: Professor G. Gazetas
 Funding: Greek Secretariat of Research and Technology, Budget: € 600,000
 <u>Role:</u> Deputy PI, Proposal Preparation (with R. Kourkoulis and F. Gelagoti)</p> |
| 2011–present | <p>GIPIPE: Safety of Buried Steel Pipelines under Ground-Induced Deformations
 Coordinator: Professor S. Karamanos, University of Thessaly
 Funding: EC, Research Fund for Coal and Steel,
 Budget: € 1,092,000 (NTUA: € 281,000)
 <u>Role:</u> Deputy PI, Proposal Preparation (with G. Gazetas for NTUA)</p> |
| 2010–present | <p>PERPETUATE: Performance–based Approach to Earthquake Protection of Cultural Heritage in European and Mediterranean Countries
 Coordinator: Professor S. Lagomarsino, University of Genoa, Italy
 Funding: FP7–Environment (EC), Budget: € 2,237,000 (NTUA: € 114,000)
 <u>Role:</u> Deputy PI, Proposal Preparation (with G. Gazetas for NTUA)
 <u>Relevant publications:</u> C93, C94</p> |
| 2010–2012 | <p>Seismic Response of Shallow Foundations and their Effect on the Design of RC Shear Walls for the Retrofit of Existing Buildings
 Principal Investigator: Professor G. Gazetas
 Funding: Earthquake Planning and Protection Organization, Budget: € 30,000
 <u>Role:</u> Deputy PI, Proposal Preparation
 <u>Relevant publications:</u> J46, C95</p> |

- 2009–present **DARE: Soil Foundation Structure Systems Beyond Conventional Seismic Failure Thresholds – Application to New or Existing Structures and Monuments**
Principal Investigator: Professor G. Gazetas
Funding: ERC FP7–IDEAS (EC), Budget: € 2,400,000
Role: Deputy PI, Proposal Preparation (with R. Kourkoulis and F. Gelagoti)
Relevant publications: [J26](#), [J27](#), [J28](#), [J29](#), [J31](#), [J32](#), [J33](#), [J34](#), [J35](#), [J36](#), [J37](#), [J38](#), [J39](#), [J41](#), [J42](#), [J43](#), [J44](#), [J45](#), B4, C67–C70, C73, C77–C78, C80, C82–C88
- 2009–present **SERIES: Seismic Engineering Research Infrastructures for European Synergies**
Coordinator: Professor M. Fardis, University of Patras
Funding: FP7–Infrastructure (EC), Budget: € 8,700,000 (NTUA: 360,000)
Role: Deputy PI, Proposal Preparation (with G. Gazetas for NTUA-LSM)
- 2005–2006 **Railway Bridges on Active Seismic Faults: Development of New Analysis Methodology–Investigation and Analysis of Mitigation Measures**
Principal Investigator: Professor G. Gazetas
Funding: Greek Railway Organization, Budget: € 247,000
Role: Deputy PI, Proposal Preparation
Relevant publications: [J17](#), C44, C50, C61–C63, C71, C72, C76
- 2005–2008 **AKMON: Experimental Simulation of Seismic Shaking and Fault Rupture Propagation, for the Study of their Effects on models of Geotechnical / Structural / Transportation Infrastructure Systems**
Principal Investigator: Professor G. Gazetas
Funding: Greek Secretariat for Research & Technology, Budget: € 247,000
Role: Deputy PI, Proposal Preparation
Relevant publications: C46, C48, C49, C53
- 2005–2008 **Seismic Hazard Assessment and Design of O.E.K. Buildings to withstand Tectonic Dislocation of the Atalanti Fault**
Principal Investigator: Professor G. Gazetas
Funding: Greek Secretariat for Research & Technology, Budget: € 120,000
Role: Deputy PI, Proposal Preparation
Relevant publications: C15, C47
- 2002–2006 **QUAKER: Fault-Rupture and Strong Shaking Effects on the Safety of Composite Foundations and Pipeline Systems: Quantification and Reduction of Seismic Risk through the Application of Advanced Geotechnical Engineering Techniques**
Coordinator: Professor M.C.R. Davies, University of Dundee, UK
Funding: European Community, Budget: € 926,000 (NTUA: € 171,000)
Role: Researcher, Proposal Preparation (with G. Gazetas for NTUA)
Relevant publications: [J5](#), [J7](#), [J8](#), [J11](#), [J12](#), [J13](#), [J14](#), [J15](#), J16, [J18](#), J20, [J24](#), B3, C14, C38, C40, C54, C56–C58
- 2003–2006 **TURNOUTS: New concepts for turnouts in urban rail transit infrastructure**
Coordinator: Patrick Vanhonacker, D2S Int., Leuven, Belgium
Funding: European Community, Budget: € 2,618,000 (NTUA: € 175,000)
Role: Researcher, Proposal Preparation (with G. Gazetas for NTUA)
Relevant publications: [J19](#), [J21](#), [J22](#), C39, C51, C52

- 2003–2004 **The Lefkada 14-8-2003 Earthquake: Analysis of Harbor Quay-wall Failures and Landslides**
 Coordinator: Professor G. Gazetas
 Funding: Greek Organization for Earthquake Protection, Budget: € 71,000
Role: Researcher
Relevant publications: C9, C17, C27
- 2003–2006 **LESLOSS: Risk Mitigation for Earthquakes and Landslides**
 Coordinator: Professor M. Calvi, University of Pavia, Italy
 Funding: European Community, Budget: € 4,577,000 (NTUA: € 115,000)
Role: Researcher
Relevant publications: C31, C32, C33
- 2003–2006 **ASPROGE: Aseismic Design of Bridges, Systems Analysis**
 Coordinator: Professor A. Kappos, Aristotle University of Thessaloniki.
 Funding: General Secr. for Research & Development, Budget: € 1.298.000 (NTUA: € 96,000)
Role: Researcher
Relevant publications: C3, C6
- 2003–2006 **X-SOILS: Foundation Design in Seismically Problematic Soils: Seismic Hazard Assessment, Aseismic Design, Improvement**
 Coordinator: Professor G. Bouckovalas
 Funding: General Secr. for Research & Development, Budget: € 1,150,000 (NTUA: € 295,000)
Role: Researcher
Relevant publications: C12, C13, C28
- 2000–2001 **Numerical and Experimental Assessment of Seismic Accelerations on the Epicentral Region of the 1999 Athens Earthquake**
 PI: Professor G. Gazetas
 Funding: Greek Organization for Earthquake Protection, Budget: 173,000 €
Role: Researcher
Relevant publications: [J2](#), [J3](#), C8, C10, C11

DEVELOPMENT OF EXPERIMENTAL FACILITIES

- 2008 Certification of the New Laboratory with EN–ISO 9001:2000 (TÜV) for *Simulation of seismic response of structures and soil–structure systems*
- Development of Quality Assurance, Equipment, and Personnel Files
 - Development of Operation and Maintenance Manuals
 - Certification by TÜV and Issuing of 3-year Certificate
- 2007 Promotion of the Capabilities of the New Laboratory (with F. Gelagoti)
- Development of internet site
 - Development of Laboratory Leaflet and Brochure
- 2006–2007 Design and Construction of New Laboratory Equipment (with V. Drosos and T. Georgarakos)
- 1) **Fault Rupture Box**
 Electronically–controlled split–box, having internal dimensions 2.6 x 1.1 x 0.9 m (length x height x width), capable of simulating normal and reverse fault rupture propagation through soil and its interaction with foundation–structure systems. It consists of a stable and a movable part, moving upwards or downwards to simulate normal or reverse faulting, respectively.

2) Sand Raining System

Electronically-controlled system, allowing consistent sand raining to achieve controllable and repeatable density. The density is controlled through the velocity and height of raining, and the aperture of the soil container.

3) Strong Box

Rigid box, of internal dimensions 1.6 x 0.9 x 0.75 m (length x height x width), to test soil specimens on the shaking table.

4) Laminar Box

Flexible box, of internal dimensions 1.6 x 1.1 x 0.9 m (length x height x width), allowing realistic simulation of the dynamic response of soil specimens.

5) Pushover Apparatus and Reaction Wall

Electronically-controlled apparatus, capable of conducting monotonic and slow-cyclic vertical and horizontal pushover tests (1.5 ton capacity).

- 2006 Commissioning of the Shaking Table (with V. Drosos and T. Georgarakos)
- Supervision of Installation, and training: operation and maintenance
 - Shaking table calibration: artificial and real seismic records
 - Commissioning of sensors (accelerometers, displacement transducers, pressure transducers, etc) and data acquisition systems.
- 2005 Preparation of Lab Space (with V. Drosos and T. Georgarakos)
- Design of the New Installation (rooms, offices, facilities, power supply, etc.)
 - Design of the Foundation of the Shaking Table, installed at the basement of the Geotechnical Engineering Building (which was under operation), and should be vibration-free.
 - Excavation between the foundations of the Geotechnical Engineering Building
 - Construction of the Foundation of the Shaking Table and Laboratory Facilities.
- 2004 Preparation and Submission of Proposal: Research Program AKMON.

TEACHING EXPERIENCE

As Assistant Professor/Adjunct Lecturer, National Technical University of Athens:

- Soil Dynamics (9th Semester) : 2008–present
- Soil–Structure Interaction (8th Semester) : 2008–present
- Bridge Engineering (8th Semester) : 2008–2010

As Teaching Assistant, National Technical University of Athens:

- Soil Dynamics (9th Semester) : 2001–2007
- Soil–Structure Interaction (8th Semester) : 2005–2007
- Computational Geotechnics (8th Semester) : 2005–2006
- Bridge Engineering, (8th Semester) : 2005–2006

Co-Author of Lecture Notes for 4 Courses, National Technical University of Athens:

- Soil Dynamics (9th Semester)
- Soil–Structure Interaction (8th Semester)
- Computational Geotechnics (8th Semester)
- Bridge Engineering (8th Semester)

As Postdoctoral Research Fellow, University of Dundee, UK:

- Seminars and Lectures : 2007–2009
- Co-supervision of 1 Master Thesis (Marianna Loli, see below)

GRADUATE AND UNDERGRADUATE STUDENT MENTORSHIP

Supervision or Co-Supervision of Doctoral Dissertations

1. Amalia Giannakou (2007), *Seismic Behaviour of Inclined Piles*, NTUA, Committee Chair: Prof. G. Gazetas. Relevant publications: [J13](#), [J23](#), J46
2. Rallis Kourkoulis (2009), *Interplay of Mat Foundations and Piles with a Failing Slope*, NTUA, Committee Chair: Prof. G. Gazetas. Relevant publications: [J27](#), [J29](#), [J31](#), [J34](#)
3. Fani Gelagoti (2010), *Metaplastic Response and collapse of Frame-Foundation Systems and the Concept of Rocking Isolation*, NTUA, Committee Chair: Prof. G. Gazetas. Relevant publications: [J38](#), [J39](#), [J42](#)
4. Evangelia Garini (2011), *Sliding Systems under Near-Fault Ground Shaking: Development and Demonstration of Inelastic Analogue*, NTUA, Committee Chair: Prof. G. Gazetas. Relevant publications: [J25](#), [J35](#)
5. Marianna Loli (to be completed in 2013), *Seismic Design of Bridges: Reversal of Conventional Capacity Design*, NTUA, Committee Chair: Prof. G. Gazetas. Relevant publications: [J37](#), [J43](#)
6. Meysam Fadaee (to be completed in 2013), Novel concepts and methods for seismic faulting hazard mitigation, *collaboration with the International institute of Earthquake Engineering and Seismology*, Tehran, Iran, Committee Chair: Prof. M.K Jafari. Relevant publications: J50
7. Aggelos Tsatsis (started in 2012), Buried Steel Pipelines subjected to Ground-Induced Deformation, NTUA, Committee Chair: Prof. G. Gazetas.

Supervision or Co-Supervision of Diploma & Master Theses

1. George Antonakos (2008), *Foundation Subjected to Localized Deformation due to Thrust Faulting*, Diploma Thesis, NTUA. Relevant publications: [J26](#)
2. Dimitra Polytarchou (2008), *Seismic Response of Reinforced Soil Retaining Walls: Shaking Table Tests*, Diploma Thesis, NTUA.
3. Marianna Loli (2008), *Bridge Pier-Foundation: Beyond the Seismic Capacity Design*, Diploma Thesis, NTUA. Relevant publications: [J28](#)
4. Hara Prassa (2008), *Seismic Response of Geofam-isolated Retaining Walls*, Diploma Thesis, NTUA.
5. Panagiotis Galanis (2008), *The Winkler Spring Modulus for Foundation Slabs on Homogeneous and Inhomogeneous Soil*, Diploma Thesis, NTUA.
6. Margarita Palaiologou (2009), *Fault Rupture - Soil - Foundation Interaction: Experiment and Analysis*, Diploma Thesis, NTUA.
7. Eleni Stavropoulou (2009), *Dynamic Response of Pier Foundations of the Messina Bridge*, Diploma Thesis, National Technical University of Athens, Greece.
8. Ioannis Panos (2009), *Experimental Measurement of Shear Modulus in Laboratory Specimens*, MSc. Thesis, National Technical University of Athens, Greece.
9. Irene Veliou (2009), *Numerical Simulation of Rail Stiffness taking account of Soil-Structure Interaction*, Diploma Thesis, National Technical University of Athens, Greece.
10. Marianna Loli (2009), *Interaction of Caisson Foundations with Dip-Slip Fault Rupture: Application to the Design of Bridges*, MS Thesis, University of Dundee UK, in collaboration with Dr. Fraser Bransby. Relevant publications: [J33](#), [J36](#)
11. Dimitra Bouziou (2010), *Seismic Performance of Pile Groups: Towards a New Design Philosophy*, Diploma Thesis, NTUA.
12. Anastasia Nasopoulou (2010), *Seismic Response of Retaining Walls: Investigation of Alternative Seismic Isolation Methods*, Diploma Thesis, NTUA.

13. Panagiota Kokkali (2010), *Metaplastic Rocking Response of 1-Dof Systems: Dimensional Analysis*, Diploma Thesis, NTUA. Relevant publications: [J43](#)
14. Aggelos Tsatsis (2010), *Pilegroup subjected to Fault Rupture: Ductility Demand*, Diploma Thesis, NTUA. Relevant publications: J48
15. Orestis Zarzouras (2011), *Interaction of Caisson Foundations with Dip-Slip Fault Rupture*, MSc.Thesis, NTUA.
16. Andreas-Gerasimos Gavras (2011), *Metaplastic Analysis of Rocking 1-Dof Systems on Two Layered Soil*, Diploma Thesis, NTUA.
17. Angeliki Rontogianni (2011), *Seismic Rehabilitation of an Existing 3-Storey Building: Conventional Design and Rocking Isolation System*, Diploma Thesis, NTUA.
18. Christina Argyrou (2011), *The Effect of Nonlinearities in the Rotational Stiffness of Shallow Foundations*, Diploma Thesis, NTUA.
19. Efthymios Papadopoulos (2011), *Metaplastic Rocking Response of SDOF System: Experimental Study*, Diploma Thesis, NTUA. Relevant publications: [J44](#)
20. Vasiliki Founta (2011), *Rocking of Frame on 2-Layered Inelastic Soil*, Diploma Thesis, NTUA.
21. Evgenia Sideri & Athina Spyridaki (2011), *Inelastic Rocking of Asymmetric Frame*, Diploma Thesis, NTUA. Relevant publications: J49
22. Orestis Adamidis (2011), *Static and Dynamic Rotation of Cylinder on Rigid, Elastic and Inelastic Soil*, Diploma Thesis, NTUA. Relevant publications: J47, J53
23. Nikos Dritsos (2012), *Inelastic Response of Embedded Foundations*, Diploma Thesis, NTUA.
24. Nonika Antonaki (2012), *Experimental Study of Rocking Isolation: Application to the Retrofit of an Existing Building*, MSc.Thesis, NTUA.
25. Thaleia Kontoroupi (2012), *1-DOF System Rocking on Inelastic Soil: Development of Simplified Non-Linear Methodology*, MSc.Thesis, NTUA. Relevant publications: J47, J51
26. Olga-Lida Christou (2012), *Finite element analysis of Monopile Foundation for Offshore Wind Turbines*, Diploma Thesis, NTUA.
27. Markella-Kateriua Spari (2012), *Metaplastic rocking response of SDOF oscillator under bi-directional seismic excitation*, Diploma Thesis, NTUA.
28. Ypatia Limniati (2012), *Comparative Assessment of the Seismic Performance of Novel Foundation Concepts*, Diploma Thesis, NTUA.
29. Michalis Vasileiadis (2012), *Buried Steel Pipelines subjected to Normal Faulting*, Diploma Thesis, NTUA.
30. Kiana Hashemi (2012), *Interaction of a 3-storey Building with a Normal Fault Rupture: Numerical and Experimental Simulation*, Diploma Thesis, NTUA.
31. Maria Antoniou & Maria Ploumaki (to be completed in 2013), *Comparative Assessment of Seismic Retrofit Schemes: INSTEAD vs. Rocking Isolation*, Diploma Thesis, NTUA.

Co-supervision of Diploma & Master Theses (as Research Associate, NTUA)

1. Argyroula-Niki Plelli-Tsaltaki (2001), *Analysis of the Failure of the Bearings of the Düzce-Bolu Viaduct in the Turkey (12-11-1999) Earthquake*, Diploma Thesis, NTUA, Supervisor: Prof. G. Gazetas.
2. Vasileios Drosos (2001), *Numerical Simulation of the Dynamic Response of Gravity Retaining Walls*, Diploma Thesis, NTUA, Supervisor: Prof. G. Gazetas.
3. Andreas Stavridis (2002), *Elastic Seismic Analysis of Flexible Retaining Structures With and Without Horizontal Support*, Diploma Thesis, NTUA, Supervisor: Prof. G. Gazetas.
4. Nikos Fardis, Takis Georgarakos (2002), *Dynamic Sliding of Simple Structures on Horizontal and Spherical Sliding Surface*, Diploma Thesis, NTUA, Supervisor: Prof. G. Gazetas.

5. Rallis Kourkoulis (2002), *Geotechnical Static and Dynamic Analysis of Pier M3 of the Rion-Antirion Bridge*, NTUA, Supervisor: Prof. G. Gazetas.
6. Argyroula–Niki Plelli–Tsaltaki, *Displacements of Seismically Isolated Bridge Piers*, M.Sc. Thesis, NTUA, Supervisor: Prof. G. Gazetas.
7. Maria Kanga (2002), *Influence of the Topography and Soil Amplification Effects in the location of the Industrial Building of Ricomex that collapsed during the Athens (7/9/99) Earthquake*, MSc. Thesis, NTUA, Supervisor: As. Prof. I. Protonotarios.
8. Athanasios Papageorgiou (2002), *Approximate Methodology for Estimation of Permanent Quay-Wall Displacements under Strong Seismic Shaking: Application to the Port of Kobe*, Diploma Thesis, NTUA, Supervisor : Prof. G. Gazetas.
9. Amalia Giannakou (2003), *Seismic Response of Tunnels and the Failure of the Bolu Tunnel in the Turkey (12-11-1999) Earthquake*, Diploma Thesis, NTUA, Supervisor : Prof. A. Sofianos.
10. Dimitra Sakelaraki (2003), *Seismic Isolation of a Rigid Body, a 2-DOF Oscillator, and 2-D Frames combined with Sliders and Springs*, Diploma Thesis, NTUA, Supervisor : Professor G. Gazetas.
11. Evangelia Garini (2003), *Asymmetric Sliding and Overturning due to Near-Fault Motions*, Diploma Thesis, NTUA, Supervisor : Professor G. Gazetas.
12. Sofia Anagnostara (2003), *Tunnel Failures during Construction in Soil*, NTUA, Supervisor : Professor G. Gazetas.
13. Fani Gelagoti (2004), *Wave Propagation in Two Characteristic Soil Valleys and Soil-Structure Interaction*, NTUA, Supervisor : Professor G. Gazetas.
14. Kostas Agrafiotis (2004), *Seismic Response of a Typical Bridge of Attiki Odos With and Without Seismic Isolation*, NTUA, Supervisor : Professor G. Gazetas.
15. Michael Vasileiou (2004), *Surface Fault Outcrop and Interaction with a Simple Structure*, NTUA, Supervisor : Professor G. Gazetas.
16. Margarita Karakitsou (2004), *Seismic Response of Reinforced-Earth Retaining Walls*, NTUA, Supervisor : Professor G. Gazetas.
17. Spyros Giannakos (2005), *Numerical Analysis of Deep Retaining Structures in Soft Soil*, NTUA, Supervisor : Professor A. Sofianos.
18. Xenofon Floros (2006), *Analytical and Computational Investigation of Soil–Foundation–Bridge Interaction*, M.Sc. Thesis, NTUA, Supervisor : Prof. G. Gazetas.
19. Alexandros Kalos (2006), *Fault Rupture–Soil–Foundation–Structure Interaction: Comparison of Analysis Methods*, Diploma Thesis, NTUA, Supervisor: Prof. G. Gazetas.
20. Ioannis Panos (2007), *Analytical Simulation of the Experimental Response of Sand to Bender Element Excitation*, Diploma Thesis, NTUA, Supervisor: Ass. Professor V. Georgiannou.

ORGANIZATION OF STUDENT FIELD TRIPS & IN–SITU LECTURES

Organization (with G. Gazetas) of Student Field Trips to Kobe and Tokyo (Japan), Turkey, and Taiwan, as part of the Soil Dynamics Course (9th Semester, NTUA):

- 2011: Kobe, October 2–9
- 2010: Kobe, April 4–13
- 2009: Kobe, April 20–29
- 2008: Kobe, April 20–26
- 2008: Taiwan, April 26 – May 3
- 2007: Tokyo and Kobe, April 4–13
- 2006: Kobe and Tokyo, June 16–24
- 2004: Kobe and Tokyo, May 31–June 6
- 2003: Kobe and Tokyo, April 15–23
- 2002: Kobe and Tokyo, March 25–May 5
- 2001: Kobe and Tokyo, April 16–23
- 2001: Turkey, January 11–14
- 2001: Kobe and Tokyo, March 14–22

In-situ lectures at earthquake damaged sites, and civil engineering projects:

1) In Japan (Kobe and Tokyo):

- ✓ Noijima Fault Memorial (built on top of the 1995 fault scarp)
- ✓ Meriken Park Earthquake Memorial (Kobe port, liquefaction and lateral spreading)
- ✓ Hanshin Expressway (Kobe 1995 damaged bridges, SSI, liquefaction and lateral spreading)
- ✓ Kansai International Airport (artificial island, settlement problems)
- ✓ Akashi-Kaykio Ohashi (World's largest suspension bridge, 1990 m central span)
- ✓ Port Island Immersed Tunnel (pioneering project, seismic design, construction problems)
- ✓ Minato Ohashi (seismically-rehabilitated truss bridge, seismic isolation)
- ✓ Daikai Metro Station (collapsed during the Kobe 1995 earthquake)
- ✓ Port Island Ohashi (steel bridge that survived liquefaction-induced lateral spreading)
- ✓ Nikawa Landslide (rehabilitated landslide area, methods of slope stabilization)
- ✓ E-Defense, Miki City (World's largest shaking table, full-scale seismic testing)
- ✓ Aqua Line, Trans Tokyo-Bay Highway (monumental civil engineering project)
- ✓ National Museum of Western Art (seismically-isolated Le Corbusier monument)

2) In Taiwan:

- ✓ 921 Earthquake Museum of Taiwan (built on top of the 1999 Chi-Chi fault scarp)
- ✓ Shihkang Dam (concrete dam, crossed and damaged by the Chi-Chi fault)
- ✓ Fung-Yang City, Chung-Cheng Park (buildings and bridges damaged by the Chi-Chi fault)
- ✓ Tsengwen Transbasin Diversion Tunnel Project (14 km tunnel, under construction in 2008)
- ✓ National Center for Research on Earthquake Engineering (NCREE)
- ✓ Taipei 101 (one of the World's tallest skyscrapers, design of mass-tuned dampers)
- ✓ Taiwan high-speed rail (pioneering railway project, foundation problems)

3) In Turkey:

- ✓ Adapazari (overturning of buildings during the 1999 earthquake, foundation failure)
- ✓ Bolu Viaduct (damaged seismically-isolated viaduct bridge, crossed by the 1999 fault)
- ✓ Bolu Tunnel (important tunnel which collapsed during the 1999 earthquake)
- ✓ Gölcük (undamaged and damaged buildings, crossed by the 1999 fault)

ORGANIZATION OF CONFERENCES, WORKSHOPS, AND SEMINARS

2011	Member of the Organizing and Scientific Committee: <i>4th Japan–Greece Workshop on Seismic Design of Foundations, Innovations in Seismic Design, and Protection of Cultural Heritage</i> , Kobe, Japan, October 6–7, 2011.
2009	Member of the Organizing and Scientific Committee: <i>3rd Greece–Japan Workshop: Seismic Design, Observation, and Retrofit of Foundations</i> , Santorini, Greece, September 23–24, 2009.
2008	Member of the Organizing and Scientific Committee: <i>3rd National Conference of Earthquake Engineering and Engineering Seismology</i> , Athens, Greece, November 5–7, 2008.
2007	Member of the Organizing and Scientific Committee: <i>2nd Japan–Greece Workshop on Seismic Design, Observation, and Retrofit of Foundations</i> , Tokyo, Japan, April 3–4, 2007.
2005	Member of the Organizing and Scientific Committee: <i>1st Greece–Japan Workshop: Seismic Design, Observation, and Retrofit of Foundations</i> , Athens, Greece, October 11–12, 2005.
2005	Seminar: <i>New Bridge Engineering Codes & State-of-the-art Computational Tools</i> , Hellenic Centre for Information and Education, Athens, Greece, November 11, 2005.

- 2005 Seminar: *Bridge Engineering: Modern Design, Construction, and Management Methods*, Hellenic Centre for Information and Education Athens, Greece, May 27-28, 2005.
- 2005 Seminar: *Design and Construction of Timber Structures*, Hellenic Centre for Information and Education, Athens, Greece, February 11–12, 2005.
- 2004 Seminar: *Preservation and Seismic Retrofitting of Cultural Heritage*, Hellenic Centre for Information and Education, Patras, Greece, May 7–8, 2004.
- 2003 Seminar: *Design of Seismic Isolation Systems*, Hellenic Centre for Information and Education, Athens, Greece, December 12–13, 2003.
- 2003 Seminar: *Preservation and Seismic Retrofitting of Cultural Heritage*, Athens, Greece, Hellenic Centre for Information and Education, November 14-15, 2003.

CONSULTING ACTIVITIES & TECHNICAL REPORTS

- 2012 **7-star Resort in Southern Greece (Confidential)**
Project Description: Stabilization of a 50 m deep landslide through specially-designed groups of staggered piles. 3D analysis of the unstable slope under static conditions, and subjected to strong seismic shaking.
Technical Reports: (*in Greek*)
 T70. Slope Stabilization through Pilegroups: Preliminary Design Bridge, Technical Report (with V. Drosos, R. Kourkoulis, and F. Gelagoti), 2012.
- 2012 **Domokos ΣΓ26 Rail Bridge, Re-evaluation (Greece)**
Project Description: Consulting services to [TERNA-AKTOR C.JV](#). Special design of a 625 m rail bridge and its foundations against tectonic dislocation. Re-evaluation for oblique faulting (normal and strike-slip), and diagonal crossing of the bridge horizontal alignment.
Technical Reports: (*in Greek*)
 T69. Design of Bridge ΣΓ26 against Oblique Faulting crossing the bridge diagonally, Technical Report to TERNA-AKTOR C.JV (with G. Gazetas, and V. Drosos), 2012.
- 2011 **Tembi Tunnels, PATHE Highway (Greece)**
Project Description: Consulting services to [HOCHTEIF Constructions A.G.](#) Assessment of seismic performance of a 6 km tunnel with unreinforced concrete lining in Northern Greece.
Technical Reports:
 T68. Assessment of the Seismic Performance of Tunnel T2, Technical Report to HOCHTEIF Constructions A.G (with G. Gazetas G., R. Kourkoulis, and F. Gelagoti), 2011.
- 2011 **Expert Witness, Moshato (Greece)**
Project Description: Expert Witness for a 5-story building in very soft soil, experiencing damage due to differential settlements. Assessment of the effects of excavation and construction of a neighboring building, through numerical analysis of the two buildings and the supporting soil.
Technical Reports: (*in Greek*)
 T67. Expert Witness Report for the Building situated at 10, Ath. Diakou str. in Moshato (of Attica), and the effect of the Neighbouring Building owned by EUROMET, at 8, Ath. Diakou str., Technical Report to EUROMET, 2011.

- 2011 **Queensboro Bridge, New York (USA)**
Project Description: Consulting services to [Mueser Rutledge Consulting Engineers](#). Evaluation of foundation performance for the seismic retrofit of the Queensboro Bridge in New York City.
Technical Reports:
 T66. Nonlinear Analysis of Queensboro Bridge Foundations, Technical Report to Mueser Rutledge (with G. Gazetas G., R. Kourkoulis, and F. Gelagoti), 2011.
- 2009–2011 **Elefsina-Corinthos-Patras-Pyrgos-Tsakona Motorway (Greece)**
Project Description: Consulting services to Apion Kleos CJV (www.vinci-construction-projets.com). Special design of 6 road bridges and 3 lane-cover tunnels against seismic faulting. Special analysis of nailed retaining structure.
Technical Reports:
 T65. Retaining Structure G526 (RS34L): Nonlinear Dynamic Time-History Analysis of the Nailed Retaining Structure, Technical Report to Apion Kleos CJV (with G. Gazetas, V. Drosos, and M. Loli), 2011.
 T64. Special Study for the Design of *Derveniotis Bridge* and its Foundations against Faulting–induced Deformation, Technical Report to Apion Kleos CJV (with G. Gazetas and V. Drosos), 2010.
 T63. Special Study for the Design of *Ladopotamos Bridge* and its Foundations against Faulting–induced Deformation, Technical Report to Apion Kleos CJV (with G. Gazetas and V. Drosos), 2010.
 T62. Special Study for the Design of *Krios Bridge* and its Foundations against Faulting–induced Deformation, Technical Report to Apion Kleos CJV (with G. Gazetas and V. Drosos), 2010.
 T61. Special Study for the Design of the *C012 Lane Cover* against Faulting–induced Deformation, Technical Report to Apion Kleos CJV (with G. Gazetas and V. Drosos), 2009.
 T60. Special Study for the Design of *Foinikas Bridge* and its Foundations against Faulting–induced Deformation, Technical Report to Apion Kleos CJV (with G. Gazetas), 2009.
 T59. Special Study for the Design of *Kamares Bridge* and its Foundations against Faulting–induced Deformation, Technical Report to Apion Kleos CJV (with G. Gazetas and V. Drosos), 2009.
 T58. Special Study for the Design of *Kerynitis Bridge* and its Foundations against Faulting–induced Deformation, Technical Report to Apion Kleos CJV (with G. Gazetas and V. Drosos), 2009.
 T57. Special Study for the Design of the *Akrata Lane Cover* against Faulting–induced Deformation, Technical Report to Apion Kleos CJV (with G. Gazetas and V. Drosos), 2009.
 T56. Special Study for the Design of the *Xylokaastro Lane Cover* against Faulting–induced Deformation, Technical Report to Apion Kleos CJV (with G. Gazetas and V. Drosos), 2009.
- 2010 **Swedish Ambassador Residence in Athens (Greece)**
Project Description: Consulting services to the Swedish Embassy in Athens. Seismic hazard and vulnerability assessment of the Swedish Ambassador Residence in Athens. 3D nonlinear dynamic time history analysis of the 2-storey structure.
Technical Reports:
 T55. Seismic Vulnerability Assessment of the Swedish Ambassador Residence in Athens, Technical Report to the Swedish Embassy in Athens (with R.

Kourkoulis, F. Gelagoti, V. Drosos, M. Loli, V. Palieraki, A. Zagotsis, K. Manoledaki, A. Papathanasiou, E. Vintzileou, and G. Gazetas), 2010.

- 2010 **Soufli Bridge (Greece)**
Project Description: Consulting services to KANON S.A. Design of piled foundations of a 2-branch bridge in Northern Greece in liquefiable soil.
Technical Reports: (*in Greek*)
T54. Foundation design of pilegroups for the 2 branches of the Soufli Bridge, Technical Report to KANON S.A., 2010.
- 2009–2010 **Pineios Bridge, Central Greece Toll Road–E65 (Greece)**
Project Description: Consulting services to [Ferrovial Agroman S.A.](#) Special design against seismic faulting of a 520 m road bridge in Central Greece.
Technical Reports:
T53. E65 Pineios River Bridge: Special Study for the Design of the Bridge and its Foundations against Faulting–induced Deformation, Technical Report to E65 Joint Venture (with G. Gazetas), 2010.
- 2009 **New Port of Piraeus (Greece)**
Project Description: Consulting services to [ADK S.A.](#) 2D nonlinear dynamic analysis of quay walls and wharfs of the New Port of Piraeus at Ikonkion.
Technical Reports: (*in Greek*)
T52. Piraeus Port – Container Terminal at New Ikonion: Expected Seismic Response of Pier II, Technical Report to ADK S.A. (with G. Gazetas, R. Kourkoulis, V. Drosos, T. Georgarakos, and A. Giannakou), 2009.
- 2008 **New Doha International Airport (NDIA), Qatar**
Project Description: Consulting services to KANON S.A. 3D nonlinear analysis of piled foundations of the new Airport Hangar, and pile design against lateral loading; 3D analysis of pavement slabs to sustain concentrated loading by airplane jacks.
Technical Reports:
T51. Nonlinear Analysis of NDIA Hangar Pile Foundations, Technical Report to Kanon S.A., 2008
T50. 3D Analysis of NDIA Pavement Slabs, Technical Report to Kanon S.A., 2008.
- 2008 **Shopping Mall at Rentis, Athens (Greece)**
Project Description: Consulting services to FOCAL Project Managers S.A. Design of piled foundations at the area of archeological findings.
Technical Reports: (*in Greek*)
T49. Additional geotechnical study for the design of the foundation of the Rentis S.A. building at the area of archaeological findings, Technical Report to FOCAL Project Managers S.A., 2008.
- 2007–2009 **7-star Resort in Southern Greece, No. 2 (Confidential)**
Project Description: Consulting services to [AKTOR S.A.](#) Special design against seismic faulting of 10 Villas, 3 Main Buildings, and 1 Bridge, all lying within a Hotel Resort in Southern Greece. Detailed geotechnical/foundation design of 45 buildings and 3 road bridges. Special design against liquefaction-induced lateral spreading of road embankments and bridge foundations.
Technical Reports: (*in Greek*)
T48. Special Design of Bridge G3 against Faulting-induced Deformation, Technical Report to AKTOR S.A. (with G. Gazetas), 2009.
T47. Special Design of Buildings A1, A2, A3, A5, A6, A8, A9, A10, A12, A13 (Wing A, Hotel 2), and of the Health Club Building against Faulting-induced Deformation, Technical Report to AKTOR S.A. (with G. Gazetas), 2009.

- T46. Special Design of Conference Center Reservoir Building against Faulting-induced Deformation, Technical Report to AKTOR S.A. (with G. Gazetas), 2009.
- T45. Special Design of Conference Center Reservoir Building against Faulting-induced Deformation, Technical Report to AKTOR S.A. (with G. Gazetas), 2009.
- T44. Final Foundation Design of Building Structures and Bridges Γ1, Γ2, and Γ3 (conf.), Technical Report to AKTOR S.A. (with G. Gazetas, R. Kourkoulis, F. Gelagoti, and T. Georgarakos), 2008.
- T43. Final Geotechnical Design of Road Embankments (conf.), Technical Report to AKTOR S.A. (with G. Gazetas, R. Kourkoulis, and F. Gelagoti), 2008.
- T42. Special Design of Road Embankment 1 (conf.) against liquefaction and lateral spreading, Technical Report to AKTOR S.A. (with G. Gazetas, R. Kourkoulis, and F. Gelagoti), 2008.
- T41. Special Design of the Central Building of the North Hotel against Faulting-induced Deformation, Technical Report to AKTOR S.A. (with G. Gazetas), 2007.
- T40. Special Design of the Conference Center of the North Hotel against Faulting-induced Deformation, Technical Report to AKTOR S.A. (with G. Gazetas), 2007.

2007

Al Gurm Resort, Abu Dhabi (U.A.E.)

Project Description: Consulting services to [Al Gurm Development Group](#). Geotechnical assessment, dynamic analysis, evaluation of liquefaction potential, and design of piles against liquefaction– induced lateral spreading.

Technical Reports:

- T39. Al Gurm Resort Development Project–Pile Design Against Lateral Spreading, Technical Report to Al Gurm Development Group (with V. Drosos V., T. Georgarakos, G. Gazetas, R. Kourkoulis, and G. Nuseibeh), 2007.

2007

Dubai Tower, Doha (Qatar)

Project Description: Consulting services to Middle East Foundations Group. Evaluation of in-situ and laboratory testing, assessment of concrete pile strength of the foundation of an 80-storey Skyscraper (www.dubaitowers-doha.com).

Technical Reports:

- T38. Dubai Tower–Doha, Qatar: Estimation of Concrete Strength of Tower Piles, Technical Report to Middle East Foundations Group S.A. (with F. Gelagoti, E. Vintzileou, G. Gazetas G., R. Kourkoulis, and G. Nuseibeh), 2007.

2006–2007

7-Star Resort in Southern Greece, No. 1 (Confidential)

Project Description: Special design against seismic faulting of various buildings. Exploration of alternative foundation schemes, and design of foundation and superstructure to sustain tectonic deformation.

Technical Reports: (*in Greek*)

- T37. Pilot Study of Typical Building subjected to Tectonic Dislocation, Technical Report (with G. Gazetas), 2007.
- T36. Special Study of the Central Hotel Building subjected to Tectonic Dislocation, Technical Report (with G. Gazetas), 2007.

2006–2007

Korinthos–Tripolis–Kalamata Motorway (Greece)

Project Description: Consulting services to [Moreas Motorway Joint Venture](#). Assessment of seismic vulnerability of existing and new highway infrastructure. Macroscopic estimation of seismic risk, evaluation of seismic response of bridges,

bored, and cut-and-cover tunnels, in extreme earthquake scenarios. Assessment of repair/replacement cost.

Technical Reports:

T35. Korinthos–Tripolis–Kalamata–Sparti Motorway: Seismic Loss Assessment (“Worst Case” Upper–Bound Damage Estimate), Technical Report to Moreas Group (with G. Gazetas, F. Gelagoti, and V. Drosos) 2007.

2006–2007

Domokos ΣΓ26 Rail Bridge (Greece)

Project Description: Consulting services Malios Associates and [ERGOSE](#). Seismic hazard assessment and determination of ground motions for the dynamic analysis of the bridge. Special design of a 625 m rail bridge and its foundations against tectonic dislocation.

Technical Reports: (*in Greek*)

T34. Seismic Hazard Assessment and Proposed Seismic Design Solutions for Bridge ΣΓ26, Technical Report to Malios Associates, ERGOSE (with G. Gazetas), 2007.

2006

Volos Fish-Wharf (Greece)

Project Description: Consulting services Maraveas Associates. Dynamic time-history analysis and design of piled foundations in organic soil.

Technical Reports: (*in Greek*)

T33. Volos Fish-Wharf Building: Design and Analysis of Piled-foundation against Kinematic Loading, Technical Report to Maraveas Associates (with G. Gazetas and N. Gerolymos), 2006.

2005

New Port of Igoumenitsa (Greece)

Project Description: Consulting services to [ADK S.A.](#) 2D nonlinear dynamic time-history analysis of quay walls and wharfs of the New Port of Igoumenitsa (in Northern Greece).

Technical Reports: (*in Greek*)

T32. Port of Igoumenitsa: Nonlinear Dynamic Analysis, Technical Report to ADK S.A. (with G. Gazetas, R. Kourkoulis, V. Drosos, and T. Georgarakos), 2005.

2005

Rodinon Bridge, Rhodes (Greece)

Project Description: Consulting services [Dromos Consulting](#). Special design of a 3-span bridge and its foundations against tectonic dislocation.

Technical Reports:

T31. Special Seismic–Geotechnical– Structural Study for the Design of the Rodinion Bridge against Tectonic Dislocation, Technical Report to Dromos Consulting (with G. Gazetas), 2005.

2004–2005

Paradeisia Viaduct Bridge, Korinthos–Kalamata Highway (Greece)

Project Description: Consulting services Odotechniki Ltd. Nonlinear dynamic time history analysis of a 425 m bridge in Southern Greece. Design of seismic isolation system. Dynamic analysis and design of piled-foundations for piers and abutments.

Technical Reports:

T30. Paradeisia Viaduct Bridge (K.P. 13+891,00 to 14+311,00): Seismic Design and Analysis of the Bridge and its Foundations, Technical Report to Odotechniki Ltd. (with G. Gazetas and N. Gerolymos), 2005.

2004–2005

Kamena Vourla Bypass (Greece)

Project Description: Consulting services Kanon S.A. Special design of 5 cut-and-cover tunnels at the Kamena Vourla Bypass (Central Greece) against tectonic dislocation. Nonlinear dynamic time-history analysis and seismic design.

Technical Reports: (*in Greek*)

- T29. Simplified Parametric Analysis of the Effect of the Nonlinear Response of the Cut-and-Cover Structural System on the Seismotectonic Performance of Tunnel Σ1: K.P. 11+830–12+125, Technical Report to Kanon S.A. (with G. Gazetas), 2005.
- T28. Simplified Parametric Analysis of the Effect of the Nonlinear Response of the Cut-and-Cover Structural System on the Seismotectonic Performance of Tunnel Σ3: K.P. 13+660 to 13+880, Technical Report to Kanon S.A. (with G. Gazetas), 2005.
- T27. Simplified Parametric Analysis of the Effect of the Nonlinear Response of the Cut-and-Cover Structural System on the Seismotectonic Performance of Tunnel Σ4: K.P. 14+940 to 15+040, Technical Report to Kanon S.A. (with G. Gazetas), 2005.
- T26. Seismic and Seismotectonic Analysis of Cut & Cover Tunnels at the Kamena Vourla Bypass, Technical Report to Kanon S.A. (with G. Gazetas and M. Apostolou), 2005.

2004–2005

Attiki Odos Motorway, Athens (Greece)

Project Description: Consulting services to Attiki Odos Joint Venture. Assessment of seismic vulnerability of motorway infrastructures (bridges, bored, and cut-and-cover tunnels). Assessment of the repair/replacement cost.

Technical Reports:

- T25. Attiki Odos Motorway: Seismic Loss Assessment (“Worst Case” Upper-Bound Damage Estimate), Technical Report to Attiki Odos (with G. Gazetas, R. Kourkoulis, F. Gelagoti, and V. Drosos) 2005.

2004

Opening Ceremony Shaft, Olympic Stadium of Athens (Greece)

Project Description: Consulting services to Kanon S.A. Analysis and final design of retaining pile support of a deep (25 m) shaft constructed at the centre of the Olympic Stadium for the Opening Ceremony of the 2004 Olympic Games.

Technical Reports: (*in Greek*)

- T24. Temporary support of the Opening Ceremony Shaft of the Olympic Stadium of Athens, Technical Report to KANON S.A. (with G. Gazetas and N. Gerolymos), 2004.

2003–2004

Rion–Antirion Undersea Rail Tunnel, Seismic Design (Greece)

Project Description: Consulting services to the [Greek Railway Organization–OSE](#). Seismic design of the selected solution for an undersea railway tunnel, crossing the 2 km long and 70 m deep Rion–Antirion Straits.

Technical Reports: (*in Greek*)

- T23. Rion–Antirion Undersea Rail Tunnel: Dynamic Analysis in the Longitudinal Direction, and Seismic Design. Comparative Assessment and Main Conclusions of the Study, Technical Report to OSE (with G. Gazetas, N. Gerolymos, V. Drosos, R. Kourkoulis, and T. Georgarakos), 2004.
- T22. Rion–Antirion Undersea Rail Tunnel: Dynamic Analysis in the Longitudinal Direction, and Seismic Design. Geotechnical and Geological Assessment, Seismic Hazard, and Dynamic Soil Response, Technical Report to OSE (with G. Gazetas, N. Gerolymos, V. Drosos, R. Kourkoulis, and T. Georgarakos), 2004.
- T21. Rion–Antirion Undersea Rail Tunnel: Dynamic Analysis in the Longitudinal Direction, and Seismic Design. Dynamic Analysis of the Immersed Tunnel, and Parametric Study, Technical Report to OSE (with G. Gazetas, N. Gerolymos, V. Drosos, R. Kourkoulis, and T. Georgarakos), 2004.

- T20. Rion–Antirrhion Undersea Rail Tunnel: Dynamic Analysis in the Longitudinal Direction, and Seismic Design. 2D Analysis of Fault Rupture Propagation, Interaction with the Immersed Tunnel, and Design of Tunnel Joints, Technical Report to OSE (with G. Gazetas, N. Gerolymos, V. Drosos, R. Kourkoulis, and T. Georgarakos), 2004.
- T19. Rion–Antirrhion Undersea Rail Tunnel: Dynamic Analysis in the Longitudinal Direction, and Seismic Design. Dynamic Analysis of the Shaft Connecting the Immersed with the Bored Tunnel, Technical Report to OSE (with G. Gazetas, N. Gerolymos, V. Drosos, R. Kourkoulis, and T. Georgarakos), 2004.

2002–2003

Rion–Antirrhion Undersea Rail Tunnel, Pre-feasibility (Greece)

Project Description: Consulting services to the [Greek Railway Organization–OSE](#). Pre-feasibility study and conceptual design for a proposed undersea railway tunnel, crossing the 2 km long and 70 m deep Rion–Antirrhion Straits.

Technical Reports: (*in Greek*)

- T18. Rion–Antirrhion Undersea Rail Tunnel: Evaluation of Alternative Alignments, Technical Report to OSE (with G. Gazetas, E. Stara, J. Ticof, N. Gerolymos, V. Drosos, R. Kourkoulis, and T. Georgarakos), 2003.
- T17. Rion–Antirrhion Undersea Rail Tunnel: Comparative Assessment of Construction and Key Technical Issues, Technical Report to OSE (with G. Gazetas, E. Stara, J. Ticof, N. Gerolymos, V. Drosos, R. Kourkoulis, and T. Georgarakos), 2003.
- T16. Rion–Antirrhion Undersea Rail Tunnel: Fundamental Design Issues, Seismic Hazard Assessment, and Dynamic Analysis, Technical Report to OSE (with G. Gazetas, E. Stara, J. Ticof, N. Gerolymos, V. Drosos, R. Kourkoulis, and T. Georgarakos), 2003.
- T15. Rion–Antirrhion Undersea Rail Tunnel: Comparative Evaluation of Alternative Solutions and Initial Cost Assessment, Technical Report to OSE (with G. Gazetas, E. Stara, J. Ticof, N. Gerolymos, V. Drosos, R. Kourkoulis, and T. Georgarakos), 2003.

2003

Maliakos-Kleidi Motorway (Greece)

Project Description: Consulting services to Obermeyer Hellas S.A. Geotechnical assessment and foundation design for the bidding of various motorway infrastructures.

Technical Reports:

- T14. Maliakos Kleidi Motorway. Platamonas–Skotina Bridge Foundations (K.P. 1+067 to 1+257), Technical Report to Obermeyer S.A. (with G. Gazetas and N. Gerolymos), 2003.
- T13. Maliakos Kleidi Motorway. Tempi–Rapsani: Geotechnical Report for Embankments (K.P. 0+000 to 1+400, 4+280 to 4+800, 11+000 to 13+150), Technical Report to Obermeyer S.A. (with G. Gazetas and E. Stara), 2003.

2003

Diavolrema Bridge (Greece)

Project Description: Consulting services to [Egnatia Odos S.A.](#) Dynamic analysis and seismic design of piled foundations of a highway bridge.

Technical Reports: (*in Greek*)

- T12. Diavolrema Bridge: Dynamic Analysis of Bridge Foundations, Technical Report to Egnatia Odos S.A. (with G. Gazetas and M. Apostolou), 2003.

2003

Doukissis Plakentias Metro Tunnel (Greece)

Project Description: Consulting services to AEGEK-AKTOR-SELI and J & P AVAX Joint Venture. Investigation of the causes of failure of a bored metro tunnel. 2D finite element analysis, evaluation of the most probable causes of collapse.

Technical Reports:

T11. Local failure of a tunnel section at D. Plakentias Avenue, Technical Report to AEGEK-AKTOR-SELI and J & P AVAX Joint Venture (with G. Gazetas, E. Stara, and J. Ticof), 2003.

2003

Turnout Crossings of the Athens Metro (Greece)

Project Description: Consulting services to [SPIE S.A.](#) Performance assessment of the proposed solution for new turnout baseplates assemblies. The proposed solution was applied successfully.

Technical Reports:

T10. Turnout crossings of the Athens Metro: Performance evaluation of the New Base-Plate Assemblies proposed by SPIE, using 3D Finite Element Modeling, Technical Report to SPIE S.A. (with G. Gazetas), 2003.

2002

Olympic Stadium of Athens (Greece)

Project Description: Consulting services to KANON S.A. Foundation design for various structures that were constructed to renovate the Olympic Stadium of Athens for the 2004 Olympic Games of Athens, including two 300 m-in span arches covering the Stadium (designed by Santiago Calatrava).

Technical Reports: (in Greek)

T9. Renovation of the Olympic Stadium of Athens: Foundation Design, Technical Report to KANON S.A. (with G. Gazetas, and Pr. Psarropoulos), 2002.

2002

Turnout Crossings of the Athens Metro (Greece)

Project Description: Consulting services to [Attiko Metro S.A.](#) Investigation of the causes of fatigue failure of turnout baseplate assemblies. 3D finite element analysis, and proposal of corrective measures.

Technical Reports:

T8. Turnout crossings of the Athens Metro: Investigation on the Causes of Failure of Base-Plate Assemblies through 3D Finite Element Modeling, Technical Report to Attiko Metro S.A. (with G. Gazetas), 2002.

2002

Aghios Antonios Metro Station, Athens Metro (Greece)

Project Description: Consulting services to [Attiko Metro S.A.](#) Analysis and design of a 20 m temporary retaining structure with a tie-back anchored pile-wall, in close proximity to an 11-storey building.

Technical Reports: (in Greek)

T7. Aghios Antonios Metro Station: Design of Temporary Anchored Wall in support of excavation adjacent to 11-storey building, Technical Report to Attiko Metro S.A. (with G. Gazetas, E. Stara, and J. Ticof), 2002.

2002

TVX Tailings Dams, Chalkidiki (Greece)

Project Description: Consulting services to TVX Hellas S.A. Geotechnical assessment of the stability of four tailings dams against flooding, earthquake loading, and tectonic dislocation. Conceptual design of amelioration measures.

Technical Reports: (in Greek)

T6. Chevalier Tailings Dam: Analysis of dam deformation due to seismotectonic fault rupture, Technical Report to TVX Hellas S.A. (with G. Gazetas, E. Stara, and J. Ticof), 2002.

T5. Chevalier Tailings Dam: Dynamic Analysis of the dam, taking account of liquefaction and lateral spreading, Technical Report to TVX Hellas S.A. (with G. Gazetas, E. Stara, and J. Ticof), 2002.

2002

Loutraki Marina (Greece)

Project Description: Consulting services to [ADK S.A.](#) Equivalent linear dynamic time-history analysis of quay walls and breakwaters.

Technical Reports: (in Greek)

T4. Loutraki Marina: Dynamic Analysis of Quaywalls and Breakwaters, Technical Report to ADK S.A. (with G. Gazetas, E. Stara, and E. Protopappa), 2002.

2001

Olympic Hippodrome, Athens (Greece)

Project Description: Consulting services to [Technodomiki S.A.](#) Analysis and design of the foundations of the new Hippodrome, constructed for the Athens 2004 Olympic Games. 3D finite element analysis of grid foundations.

Technical Reports: (in Greek)

T3. Olympic Hippodrome: Foundation Design, Technical Report to Technodomiki S.A. (with G. Gazetas, E. Stara), 2002.

2001

Anthoupolis, Peristeri (Greece)

Project Description: Consulting services to the Municipality of Peristerion, Athens (Greece). Microzonation study and proposal of seismic design spectra.

Technical Reports: (in Greek)

T2. Anthoupolis, Peristerion Microzonation Study, Technical Report to the Municipality of Peristerion (with G. Gazetas), 2001.

2001

International Broadcasting Centre, Athens (Greece)

Project Description: Consulting services to KANON S.A. Foundation design of a large building, constructed for the Olympic Games of Athens (2004). 3D finite element analysis of grid foundations, and assessment of settlements.

Technical Reports: (in Greek)

T1. Foundation design and 3D analysis of the IBC, Technical Report to KANON S.A. (with G. Gazetas), 2001.