

GEORGE D. BOUCKOVALAS

Professor, N.T.U.A

specialization in

Geotechnics, Soil Dynamics

& Earthquake Engineering



C U R R I C U L U M V I T A E

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N o v e m b e r 2 0 1 4

DATE AND

PLACE OF BIRTH: 1955, Lamia, Greece

NATIONALITY: Greek

EDUCATION:

1978 Diploma in Civil Engineering, National Technical University (N.T.U.A.), Athens, Greece

1981 M.Sc. in Civil Engineering, Mass. Inst. of Technology (M.I.T.), Cambridge, MA, U.S.A.

1982 Sc.D. in Civil Engineering, Mass. Inst. of Technology (M.I.T.), Cambridge, MA, U.S.A.

TEACHING:

1981-1983 Tutoring for graduate and undergraduate courses in Geotechnical Engineering at M.I.T.

1986-1987 Teaching at the Southeastern preparative College, Athens.

- 1987-2014**
- (a) Undergraduate teaching at N.T.U.A. (Soil Mechanics, Soil Dynamics, Special Topics in Geotechnical Engineering, Computer Methods in Geotechnics)
 - (b) Graduate teaching at N.T.U.A. (Geotechnical Earthquake Engineering for the graduate programmes «Structural Design and Analysis of Structures» and «Design and Construction of Underground Works»).
 - (c) Supervision of more than fifty (50) undergraduate and graduate Diploma Theses.
 - (d) Supervision of nine (9) Ph.D. Dissertations at N.T.U.A., seven completed and two in progress. Member of the supervision committee of many more Ph.D. dissertations

RESEARCH:

1978-1982 M.Sc. and Sc.D. dissertations at M.I.T. (Research Assistant during the period 1978-1981)

1984-1985 Research Fellow at the Norwegian Geotechnical Institute (N.G.I.)

1985-1987 Soils' Research Center of the Hellenic Ministry of Public Works (K.E.D.E.)

1987-today Geotechnical Division, Department of Civil Engineering, N.T.U.A.

Project Coordinator or Principal Investigator, in 35 research projects

PUBLICATIONS:

- **In Journals** 53 (44 international & 9 Greek)
- **Invited Papers & Book Chaps** 19 (15 international & 4 Greek)
- **In Conference Proceedings** 118 (71 international & 47 Greek)

Citations:

Google Scholar: 936, h-factor 17 / Scopus (66 paper): 486, h-factor=13

PROFESSIONAL CAREER:

- 1978-1982** Part-time geotechnical consulting during graduate studies at M.I.T.
- 1982-1984** Supervision of road and airports construction during Military Service
- 1984-1985** Part-time consulting on storm- and earthquake-induced loading of offshore platforms, on behalf of N.G.I.
- 1985-1987** Evaluation of geotechnical investigations on behalf of the Hellenic Ministry of Public Works (K.E.D.E.)
- 1987-2014** Consulting on Geotechnics and Geotechnical Earthquake Engineering for Greek and Foreign Engineering Firms

ENGINEERING PROJECTS:

- **Geotechnical Explorations** 23
- **Geophysical Measurement of Dynamic Soil Properties** 8 [for the Natural Gas Pipeline, the New Museum of Acropolis, the Athens Metro, the Athens Olympic Village, etc.]
- **Seismic Design of Dams and Embankments** 8 [2 dams for the Greek Public Power Company (checker), the New Patras' Port breakwater, the offshore part of the New Runway of Heraclion airport, the railway embankment at Sperchios river, New Port of Patras-3rd section, Chontal dam at Equador, etc.]
- **Seismic Design of Offshore Oil Platforms and Bridges** 8 [3 offshore platforms in the North Sea, participation in the preliminary study of the Rion-Antirion bridge, foundation of the new Strimonas Bridge of Egnatia Odos-evaluation of liquefaction effects (checker), pile foundation of Egnatia Odos bridge in Kleidi (checker), 5 bridges along Gouria – Astakos hwy, etc.]
- **Seismic Design of Foundations and Retaining Structures** 8 [residential compound at Xilocastro- evaluation of liquefaction effects, preliminary and final study of Zakynthos' Marina, pile foundation design of Egnatia Odos bridge in Kleidi, foundation of the Flexi-cocker tower of EL.PET., pile foundation of Sulphur Forming Package Shiploader of EL.PE., retrofit of Electric Power Plant in Syros Island, etc.]
- **Seismic Design of Natural Gas and Oil Pipeline** 45 [main Natural Gas Pipeline of Greece, its branches as well as the majority of medium pressure networks, Thes-niki to Skopje oil pipeline Megara-Corinth gas pipeline, Stamata-Aliveri gas pipeline, Greek-Italy gas pipeline, Greece-Bulgaria gas pipeline, Corinth-Megalopolis gas pipeline, etc.]
- **Seismic Microzonation Studies of Urban Areas** 12 [Kalamata, Pirgos, Heraclion and Rethimno of Krete (α' & b' phases), Thiva, Ano Liosia, Aigion, Corinthos Prefecture, West Attica, Elefsis Refinery of EL.PET., etc]

PROFESSIONAL AFFILIATIONS:

- Technical Chamber of Greece
- Hellenic Society of Civil Engineering
- American Society of Civil Engineers (A.S.C.E.)
- International Society of Soil Mech. and Foundation Engrng. (ISSMFE)
- International Society of Rock Mechanics (I.S.R.M.)

OTHER ACTIVITIES:

- Coordinator of the ETC-12 /ISSMFE international Committee for the evaluation of the geotechnical aspects of the European Seismic Code EC-8 (2003-2006)
- Director of the Construction Management Division, NTUA (2003-2004)
- Director of the Geotechnical Division, NTUA. (2000-2001 & 2008-2010)
- Director of the Foundation Engineering Laboratory, NTUA (2006-2008, 2010-)
- Lecturer in twenty two (22) International and eight (8) National Scientific Conferences
- Invited lecturer in thirteen (13) International and three (3) National Scientific Conferences
- Invited Lecturer in eight (8) research centers and Universities outside Greece (Japan, Norway, Austria, Portugal, U.S.A. Romania, Albania, Italy)
- Reviewer in six (6) International and one (1) National Scientific Journals
- Reviewer in International and National Scientific Conferences
- Reviewer of research proposals for the General Secretariat for Research & Technology (GSRT) of Greece.
- Reviewer of research proposals for the National Science Foundatio (NSF) of U.S.A..
- Member of four (4) International and five (5) National Scientific Committees
- Member of the scientific committee for the Recognition of Foreign Academic Titles (DI.K.A.T.S.A.), for Civil Engineers (1994-1997)

A. International Journals

- A1. Bouckovalas G., Whitman R.V., Marr W.A. (1984), "Permanent Displacement of Sand with Cyclic Loading", JGED, ASCE, Vol. 110(11).
- A2. Bouckovalas G. (1984), "Prediction of Earthquake- induced Deformations of earth dams", Soils and Foundations, Vol. 24 (2), DISCUSSION.
- A3. Bouckovalas G., Marr W.A., Christian J.T. (1986), "Analyzing Permanent Drift due to Cyclic Loads", JGED, ASCE, Vol. 112(6).
- A4. Bouckovalas G., Hoeg K. (1987), "Computational Model for Saturated Sand under Cyclic Loading", Soils and Foundations, Japan. Soc. of Soil Mech. and Found. Eng., Vol. 27(4).
- A5. Bouckovalas G. (1989), "Drained Permanent Deformation of Sand due to Cyclic Loading", JGED, ASCE, Vol. 114(10), DISCUSSION.
- A6. Stamatopoulos K., Bouckovalas G., Whitman R.V. (1991), "Analytical Prediction of Earthquake-induced Permanent Deformations", JGED, ASCE, Vol. 117(10).
- A7. Bouckovalas G., Stamatopoulos K., Whitman R.V. (1991), "Analysis of Seismic Settlements and Pore Pressures in Centrifuge Tests", JGED, ASCE, Vol. 117(10)
- A8. Bouckovalas G., Ting N-H., Whitman R.V. (1994), "Liquefaction Analysis of a Model Anchored Bulkhead in the Centrifuge", Soil Dynamics and Earthquake Engineering, Vol. 14, pp. 347-360.
- A9. Bouckovalas G. (1996), "Evaluation of Cyclic Model Tests on Anchor Piles in Clay", Soils and Foundations, Japan. Soc. of Soil Mech. and Found. Eng., Vol. 36, No. 4, December.
- A10. Bouckovalas G., Anagnostopoulos A. Kapenis A. Karantoni T. (1996), "Analysis of Soil Effects and Distribution of Damage from Pyrgos 1993 (Greece) Earthquake", Geotechnical & Geological Engineering, Vol. 14, pp. 111-128.
- A11. Karantoni T., Bouckovalas G. (1997), "Description and Statistical Analysis of Damage from Pyrgos 1993 (Greece) Earthquake", Soil Dynamics & Earthquake Engineering", Vol. 16, pp. 141-150.
- A12. Michaelides Od., Bouckovalas G., Gazetas G. (1996), "Non-linear Soil properties and Impedances for axially vibrating Pile Elements", Soils & Foundations, Japan. Soc. of Soil Mech. and Found. Eng., Vol. 38, No. 3, September.
- A13. Michaelides Od., Gazetas G., Bouckovalas G., Chryssikou T. (1996), "Approximate Nonlinear Dynamic axial Response of Piles", Geotechnique, Vol. 48, No. 1, pp. 33-53.
- A14. Bouckovalas G. (1996), "Prediction of Soil Effects on Seismic Motions: A comparative Case Study", Earthquake Spectra, Vol. 13, No. 3, August..
- A15. Christoulas St., Bouckovalas G., Giannaros Ch. (2000), "An experimental study on model stone columns", Soils and Foundations, Vol. 40, No. 6.
- A16. Marinos P., Bouckovalas G., et al. (2001), "Seismic classification of soils at West Athens", Engineering Geology, Vol. 62, No. 4, pp. 343-356.
- A17. Bouckovalas G., Kouretzis G. Kalogeras I. (2001), "Site specific analysis of strong motion data from the September 7, 1999 Athens (Greece) Earthquake, Natural Hazards 27, 105-131..
- A18. Papadimitriou Ach., Bouckovalas G., Dafalias Y. (2001), "A plasticity model for sand under small and large cyclic strains", Journal of Geotechnical and Geoenvironmental Engineering, ASCE, 127(11), November.
- A19. Bouckovalas G., Kouretzis G. (2001), "Stiff soil amplifications effects in Athens 07/09/99 Greece earthquake", Soil Dynamics and Earthquake Engineering, Vol. 20, September.
- A20. Papadimitriou Ach., Bouckovalas G. (2001), "Modelling sand behavior for small, medium and large cyclic strains: The multiaxial Formulation", Soil Dynamics and Earthquake Engineering, Vol. 21, June.

- A21. Hasiotis T., Papatheodorou G., Bouckovalas G., Ferentinos G. (2001), "Earthquake – induced coastal sediment instabilities in the Western Gulf of Corinth, Greece", *Marine Geology*, 186 (319-335).
- A22. Bouckovalas G. D., Andrianopoulos K. I., Papadimitriou A. G. (2003), "A Critical State interpretation for the cyclic liquefaction resistance of silty sands", *Soil Dynamics and Earthquake Engineering*, February.
- A23. Bouckovalas G. D., Papadimitriou A. G. (2003), "Multi-variable relations for soil effects on seismic ground motion parameters", *Earthquake Engineering and Structural Dynamics*, October.
- A24. Loizos A., Bouckovalas G., Karlaftis A. (2003), "A dynamic stiffness modulus for pavement design evaluation", *Journal of Transportation Engineering*, ASCE, Vol. 130(1).
- A25. Bouckovalas G., Papadimitriou Ach. (2005), "Numerical evaluation of slope topography effects on seismic ground motions", *Soil Dynamics and Earthquake Engineering*, 25 (7-10):547-555.
- A26. Loizos A., Bouckovalas G. (2005), "Pavement Soil Characterization using a Dynamic Stiffness Model", *International Journal of pavement Engineering*, Vol. 6 (1),
- A27. Kouretzis G., Bouckovalas G., Gantes Ch. (2006), "3-D shell analysis of cylindrical underground structures under seismic shear (S) wave action", *Earthquake Engineering and Structural Dynamics*, 26: pp. 909-921.
- A28. Kouretzis G.P., Bouckovalas G.D. and Gantes C.J. (2007) *Analytical calculation of blast-induced buried pipeline strains*; *International Journal of Impact Engineering*, Vol. 34, pp 1683-1704
- A29. Karamitros D., Bouckovalas G., Kouretzis G. (2007), "Stress analysis of buried steel pipelines at strike-slip fault crossings", *Soil Dynamics and Earthquake Engineering*, 27: 200-211.
- A30. Yiouta-Mitra P., Kouretzis G., Bouckovalas G. and Sofianos A. (2007) *Effect of underground structures in earthquake resistant design of surface structures*; *Geotechnical Special Publications (160)*, American Society of Civil Engineers, ISBN 9781604237719.
- A31. Papadimitriou A. G., Antoniou A. A., Bouckovalas G. D., Marinos P. G. (2008), "*Methodology for automated GIS-aided seismic microzonation studies*", *Computers and Geotechnics*, 35(4): 505-523.
- A32. Loukidis D., Bouckovalas G. D., Papadimitriou A. G. (2009), "*Analysis of fault rupture propagation through uniform soil cover*", *Soil Dynamics and Earthquake Engineering*, 29(11-12): 1389-1404.
- A33. Andrianopoulos K. I., Papadimitriou A. G., Bouckovalas G. D. (2010), "*Explicit integration of bounding surface model for the analysis of earthquake soil liquefaction*", *International Journal for Numerical and Analytical Methods in Geomechanics*, DOI 10.1002/nag.875
- A34. Andrianopoulos K. I., Papadimitriou A. G., Bouckovalas G. D. (2010), "*Bounding surface plasticity model for the seismic liquefaction analysis of geostructures*", *Soil Dynamics and Earthquake Engineering*, 30 (10): 895-911
- A35. Valsamis A., Bouckovalas G. D., Papadimitriou A. G. (2010), "*Parametric investigation of lateral spreading of gently sloping ground*", *Soil Dynamics and Earthquake Engineering*, 30: 490-508
- A.36. Kouretzis G.P. Bouckovalas G.D., Karamitros D. (2011), *Seismic Verification of Buried Pipelines and Tunnels Considering Rayleigh Wave Effects*; *Tunneling and Underground Space Technology*; Vol. 26, pp.789-794.
- A37. Karamitros D., Bouckovalas G., Kouregis G.P., Gesouli V. (2011), *Analytical verification of buried steel pipelines at normal fault crossings*, *Soil Dynamics and Earthquake Engineering*, Vol31, pp. 1452-1464 .
- A38. Bouckovalas G. D., Papadimitriou A. G., Niarchos D. N., Tsiapas Y. Z. (2011), "*Sand fabric evolution effects on drain design for liquefaction mitigation*", *Soil Dynamics and Earthquake Engineering*, 31(10): 1426-1439.

- A39. Valsamis A., Bouckovalas G. D., Chaloulos Y. (2012), "*Parametric analysis of single pile response in laterally spreading ground*", Soil Dynamics and Earthquake Engineering Vol. 34, pp. 99-100.
- A40. Karamitros D., Bouckovalas G., Chaloulos Y. (2013): "*Insight to the Seismic Liquefaction Performance of Shallow Foundations*", Journal of Geotechnical and Geoenvironmental Engineering, ASCE, Vol. 139 (4)
- A41. Karamitros D., Bouckovalas G., Chaloulos Y., Andrianopoulos K. (2013): "*Numerical analysis of liquefaction-induced bearing capacity degradation of shallow foundations on a two-layered soil profile*", Soil Dynamics and Earthquake Engineering, Vol. 44, pp. 99-101
- A40. Karamitros D., Bouckovalas G., Chaloulos Y. (2013): "*Seismic settlements of shallow foundations on liquefied soil with a clay crust*", Soil Dynamics and Earthquake Engineering, Vol. 46, pp. 61-76.
- A41. Ach. Papadimitriou, G. Bouckovalas, K. Andrianopoulos (2013): "*Methodology for estimating seismic coefficients for Performance Based Design of earth dams and tall embankments*", Soil Dynamics and Earthquake Engineering, Vol. 56, pp. 57-73.
- A42. K. Andrianopoulos, Ach. Papadimitriou, G. Bouckovalas, D. Karamitros (2013): "*Insight into the seismic response of earth dams with emphasis on seismic coefficients*", Computers and Geotechnics, Vol. 55, pp.195-210.
- A43. Chaloulos Y., Bouckovalas G., Karamitros D. (2014): "*Analysis of liquefaction effects on ultimate pile reaction to lateral spreading*", Journal of Geotechnical and Geoenvironmental Engineering, ASCE, Vol. 140 (3)
- A44. Chaloulos Y., Bouckovalas G., Karamitros D. (2013): "*Numerical simulation of pile response in lateral spreads: computational milestones and experimental verification*", Soil Dynamics and Earthquake Engineering, Vol. 55 (275-287).

B. Greek Journals

- B1. Christoulas S., Tsiambaos G. Sabatakais N, Bouckovalas G. (1986), "Correlation of Soil Conditions and Building Damage in Chalandri from the 1981 Earthquakes", Bulletin of Public Works Laboratories (KEDE), July (in Greek).
- B2. Bouckovalas G., Sabatakakis N. (1988), "Soil Conditions and Building Damage in Kalamata from the 1986 Earthquake", Bulletin of Public Works Laboratories (KEDE), December (in Greek).
- B3. Zervogiannis Ch., Bouckovalas G., Christoulas S. (1988), "Correlations for Mechanical Characteristics and Classification of Greek Soil Formations", Bulletin of Public Works Laboratories (KEDE), December (in Greek).
- B4. Kalteziotis N., Anagnostopoulos A., Bouckovalas G., et al. (1989), "Experience from the first Onshore Application of the Marcheti Dilatometer in Greece", Bulletin of KEDE, July.
- B5. Gazetas G., Bouckovalas G. (1993), "Aseismic Design of Retaining and Quay Walls", Journal of Hellenic Civil Engineering Society, Bull. 209 (in Greek).
- B6. Bouckovalas G. (1995), "Earthquake-induced Hydrodynamic Pressures on Retaining and Quay Walls", Journal of Hellenic Civil Engineering Society, Bull. 226 (in Greek).
- B7. Bouckovalas G., Kouretzis G. (2000), "Preliminary evaluation of the acceleration induced during the Athens 07/09/99 Greece earthquake at the nearby areas", Bulletin of the Technical Chamber of Greece (TEE), September.
- B8. Bouckovalas G. D., Papadimitriou A. G. (2005), "Multi-variable relations for soil effects on peak seismic motion parameters", Technika Chronika, Jan.-April.
- B9. Bouckovalas G. D., Papadimitriou A. G. (2005), "Multi-variable relations for soil effects on elastic response spectra", Technika Chronika, Jan. – April.

C. Invited Papers & Book Chapters

- C1. Bouckovalas G. (1991), "Ekofisk Tank: Performance Prediction during the Storm of Nov. 6, 1973", X ECSMFE, Florence, May 26-30.
- C2. Bouckovalas G., Ting N-H., Whitman R.V. (1993), "Analytical Predictions for an Anchored Bulkhead with Liquefiable Backfill", VELACS Intern. Conf., Univ. of California Davis, Oct. 17-20.
- C3. Statham I., Bouckovalas G., Langer M.F.B. (1995), "The Identification and Monitoring of Geohazards", State of the Art Report, XI ECSMFE, Copenhagen, May 28-June 1.
- C4. Bouckovalas G. (1995), "Seismic Risk and Response assessment for the Preservation of Monuments", Intern. Seminar on Geotechn. Aspects of the Protection of Monuments, Limone sul Garda, Italy, Sept. 4-10.
- C5. Bouckovalas G., Gazetas G., Papadimitriou Ach.. (1999), "Geotechnical aspects of the Aegion (Greece) earthquake", 2nd Intern. Conference on Geotech. Earthq. Engineering, Lisbon, June.
- C6. Bouckovalas G., Kouretzis G. (2001), "A review of soil and topography effects in Athens 09/07/199 (Greece) earthquake", special lecture, 4th Intern. Conference on Recent Advances in Geotech. Earthq. Engineering and Soil Dynamics, San Diego, March.
- C7. Bouckovalas G., Loukides D., Antoniou K. (2001), "Active fault propagation through recent soil deposits", 9th Intern. Conference of the Hellenic Geological Society, Athens, September (in Greek).
- C8. Bouckovalas G.D., Papadimitriou A.G. (2007), "Earthquake-induced liquefaction: new evidence and prospects", Proceedings, 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering, May 2006, Xanthi, (in Greek).
- C9. Bouckovalas G., Dakoulas P. (2007), "Performance based design of footings on clay crust over liquefiable sand", Special Lecture, 4th ICEGE, Thessaloniki, Greece.
- C10. Bouckovalas G. D., Papadimitriou A. G., Niarchos D. (2009), "*Gravel drains for the remediation of liquefiable sites: the Seed & Booker (1977) approach revisited*", Keynote Lecture, IS-Tokyo 2009
- C11. Bouckovalas G. D., Andrianopoulos K. I., Papadimitriou A. G. (2009), "*On the numerical modeling of ground and foundation performance under severe seismic shaking and liquefaction*", Keynote Lecture, COMPDYN 2009, Rodos, Greece (CD-535).
- C12. Bouckovalas G., Dimitriadi V. (2009), "*Geotechnical Issues on the Seismic Protection of Monuments*", 3rd Greece – Japan Workshop on Seismic Design, Observation and Retrofit of Foundations with Special Issue on Protection of Cultural Heritages, Sept. 22 – 23, Santorini.
- C13. Bouckovalas G., Karamitros D. (2010), "Surface Foundation of Bridge Pier on Liquefiable Soil with Limited Ground Improvement", 6th Hellenic Conference on Geotechnical and Geoenvironmental Engineering, Sept. 29 – Oct. 1, Volos (in Greek).
- C14. Bouckovalas G. D., Papadimitriou A. G., Andrianopoulos K. I., Valsamis A., Karamitros (2011), "*Numerical modeling of liquefaction and related ground and foundation performance*", Keynote Lecture, MERCEA '08, May 2008, Reggio-Calabria, Italy (3rd Volume publ. in 2011)
- C15. Bouckovalas G., Chaloulos Y. (2012), "Numerical Analysis of Kinematic Interaction Performance of Single Piles in Laterally Spreading Ground", 2nd International Conference on Performance Based Design in Earthquake Geotechnical Engineering, Taormina, Italy.
- C15a. Bouckovalas G., Chaloulos Y. (2014), "Numerical Analysis of Kinematic Interaction Performance of Single Piles in Laterally Spreading Ground", Bulletin of Earthq. Engineering, Vol. 12, Issue 3, pp. 1221-1237.
- C16. Bouckovalas G., Chaloulos Y. (2013), "Single pile in laterally spreading soil: numerical against experimental simulation", 5nd ICEGE, Istanbul, Turkey.

- C17. Bouckovalas G., Karamitros D., et al. (2013), "Experimental verification of shallow foundation performance under earthquake induced liquefaction", SERIES concluding Workshop, May 28-30, Ispra, Italy
- C18. Bouckovalas G., Chaloulos Y. (2014), "Analysis of piles in laterally spreading liquefied ground", 7th Hellenic Geotechnical Engineering Conference, Athens, Nov. 5-7.
- C19. Bouckovalas G., Karamitros D. et al. (2015), "FLIQ: Experimental verification of shallow foundation performance under earthquake-induced liquefaction", Chapter 32 in Experimental Research in Earthquake Engineering, Springer Intrn. Publ., Switzerland

D. International Conference Proceedings

(with full text review)

- D1. Kausel E., Roesset J.N., Bouckovalas G. (1981), "A Stiffness Matrix Approach for Layered Soils", 7th World Conf. on Earthquake Engineering, Instambul, September.
- D2. Marr W.A., Urzua A., Bouckovalas G. (1982) ,"A Numerical Model to Predict Permanent Displacements from Cyclic Loading of Foundations", BOSS' 82, Boston, MA, August.
- D3. Bouckovalas G., Madshus C. (1987), "Permanent Displacement and Pore Pressure from Partially Drained Cyclic Loading", Int. Conf. on Offshore Mechanics and Arctic Engineering, Houston, Texas, March 1-5.
- D4. Pachakis M. Konstantinidis C., Bouckovalas G. (1988), "Long Term Stability of Cutting Slopes on the Basis of Field Evidence", 5th Int. Conf. on Landslides, Luzzane, July 10-15.
- D5. Bouckovalas G., Kalteziotis N., et al. (1989), "Shear Wave Velocity in a very Soft Clay - Measurements and Correlations", XII ICSMFE, Rio de Janeiro, August 13-18.
- D6. Bouckovalas G. (1989), "Analyzing the Effect of Drainage on Earthquake Induced Settlements in the Centrifuge", 3rd Young Geot. Engineers Conference, Raubichi, USSR, May 22-26.
- D7. Bouckovalas G., Krikeli I. (1989), "Effect of Local Soil Stratigraphy on Microtremor Measurements", 2nd Int. Conf. on Geotech. Earthquake Engineering and Soil Dynamics, St. Louis MO.
- D8. Bouckovalas G., Christodoulis J., et al. (1991), "Stabilization of Landslides in Greece - National Report", Proceedings of the European Committee on Stabilization of Landslides in Europe, Bogazici University, Istanbul
- D9. Bouckovalas G. (1994), "Analyses of Local Soil Effects on Peak Seismic Motion Parameters", XIII ICSMFE, New Delhi, February.
- D10. Steensen-Bach J.O., Bouckovalas G., Anagnostopoulos A., Steenfelt J.S. (1994), "Cyclic Loading Response of Anchor Piles in Clay", XIII ICSMFE, New Delhi, February.
- D11. Bouckovalas G., Papadimitriou A. (1994), "Storm- Induced Cyclic Loading of Anchor Piles in Clay", BOSS'94, M.I.T., Boston, July.
- D12. Bouckovalas G., Marinos P., Tsiambaos G., Sabatakakis N. (1995), "Effects of Geology in the seismic Microzonation of Pyrgos, Greece", XI ECSMFE, Copenhagen, May 28-June 1.
- D13. Bouckovalas G., Gazetas G., Stavrakakis G. (1995), "Source Mechanisms and Soil Effects in the 1993 Pyrgos (Greece) Earthquake", 5th Intern. Conf. on Microzonation, Nice, Oct. 17-19.
- D14. Bouckovalas G., Panourgias T. (1998), "Theory-based relations for soil effects on elastic response spectra", Proc. 11th European Conference on Earthquake Engineering, Paris, September (in CD-ROM).
- D15. Egglezos D.N., Bouckovalas G. (1998), "Analytical relationships for earthquake-induced pore pressure in sand, clay and silt ", Proc. 11th European Conference on Earthquake Engineering, Paris, September (in CD-ROM).
- D16. Cascone E., Bouckovalas G. (1998), "Seismic bearing capacity of footings on saturated sand with clay cap", Proc. 11th European Conference on Earthquake Engineering, Paris, September (in CD-ROM).

- D17. Gantes Ch., Bouckovalas G., Gerogianni D. (1999), "Safety of buried steel pipelines subjected to explosions", Eurosteel'99, 2nd European Conference on Steel Structures, Prague, May.
- D18. Papadimitriou Ach., Bouckovalas G., Dafalias Y. (1999), "Use of elastoplasticity to simulate cyclic sand behavior", 2nd Intern. Conference on Geotech. Earthq. Engineering, Lisbon, June.
- D19. Egglezos D, Bouckovalas G. (1999), "Permanent strain and pore pressure relations for cyclic loading of sand", 2nd Intern. Conference on Geotech. Earthq. Engineering, Lisbon, June.
- D20. Memos C., Bouckovalas G., Tsiachris Al. (2000), "Stability of Rubble-Mound breakwaters under seismic action", Proceedings of Coastal 2000, ASCE, July 16-21, Sydney, Australia.
- D21. Andrianopoulos K., Bouckovalas G., Papadimitriou Ach. (2001), "A critical state evaluation of the effect of fines on liquefaction potential", 4th Intern. Conference on Recent Advances in Geotech. Earthq. Engineering and Soil Dynamics, SanDiego, March 2001.
- D22. Loukidis D., Bouckovalas G. (2001), "Numerical modelling of active fault propagation in soft soil", 4th Intern. Conference on Recent Advances in Geotech. Earthq. Engineering and Soil Dynamics, SanDiego, March 2001.
- D23. Papadimitriou Ach., Bouckovalas G. (2001), "Modelling of sand fabric evolution during cyclic loading", XV Intern. Confer. On Soil Mech. and Found. Engineering, August, Instambul.
- D24. Bouckovalas G., Papadimitriou Ach. (2004), "Numerical evaluation of slope topography effects on seismic ground motions", 11th ICSDEE and 3rd ICEGE, January 7-9, Berkeley, U.S.A.
- D25. Papadimitriou Ach., Antoniou A., Bouckovalas G., Marinos P. (2004), "Approximate relationships for GIS-aided evaluation of soil effects on seismic ground motion", 11th ICSDEE and 3rd ICEGE, January 7-9, Berkeley, U.S.A.
- D26. Andrianopoulos K, Papadimitriou Ach., Bouckovalas G. (2005), "Bounding surface Models of sands: pitfalls of mapping rules for cyclic loading", Proceed. of 11TH Intern Conf of IACMAG, Torino, June.
- D27. Bouckovalas G., Valsamis A., Andrianopoulos K. (2005), "Numerical vs. analytical simulation of liquefaction effects on the seismic bearing capacity of footings", Proceed. of 11TH Intern Conf of IACMAG, Torino, June.
- D28. Bouckovalas G., Valsamis A., Andrianopoulos K. (2005), "Pseudo static vs. performance based seismic bearing capacity of footings on liquefiable soil", Proceed. Satellite Conf. on Recent Developments in Earthquake Geotechnical Engineering, Osaka, September.
- D29. Andrianopoulos K.I., Bouckovalas G.D. & Karamitros D.K. (2005): "Effective Stress Analysis for the Seismic Response of Shallow Foundations on Liquefiable Sand", Proceedings of the 1st Greece – Japan Workshop: Seismic Design, Observation and Retrofit of Foundation, Athens, Greece, October 11-12, 2005.
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