

George C. Manos

Aristotle University of Thessaloniki-GREECE

Professor, Dept. of Civil Engineering

Director Laboratory of Strength of Materials and Structures

54124 Greece

Tel.: +30-2310-995653

Fax: +30-2310-995769

Email: gcmayos@civil.auth.gr



George Manos got his Diploma in Civil Engineering at Aristotle University, Greece and his Ph.D. in Structural Engineering, at the University of Durham, England. He has served as visiting research fellow / professor at Imperial College, University of London, University of Bristol (England), University of California Berkeley (USA), Institute of Industrial Science of the University of Tokyo (Japan). He specializes in earthquake engineering and structural dynamics, with emphasis on experimental methods as well as numerical simulations of structural problems, with field of application building structures, industrial facilities, bridges, structures of cultural heritage and earthquake retrofitting.

He has professional experience for over 30 years as a consultant engineer for projects related to the earthquake resistant design and the strengthening of structures damaged by earthquakes, and he was responsible for numerous applied research programs related to earthquake resistant structures. He is the author of over 100 technical papers and he served as a reviewer to national and international journals. He served as a member in national and international committees related to the formation of specific design guidelines for earthquake resistant structures. He served as special advisor to the Ministry of Public Works of Greece during the post-earthquake effort of damaging seismic events and he participated in world-wide post-earthquake reconnaissance teams during the past 30 years. He has been the Reporter on the topic “Architectural Heritage in Seismic Areas” International Congress “More than 2000 years in the history of Architecture”, Paris 2001, ICOMOS-UNESCO

He has served (2006-2009) as a member of the Central National Council of Cultural Heritage Structures of the Greek Ministry of Culture and as a member of the Board of Directors of the Greek Organization for Anti-seismic Planning and Protection participating in various Scientific Committees under the auspices of this Organization (1993-2010). He also served (2006-2010) as the Chairman of the Board of Directors of the Institute of Engineering Seismology and Earthquake Engineering in Thessaloniki-Greece

He currently serves as a faculty member of the specialized postgraduate course “Earthquake Design of Engineering Structures”, Dept. Civil Engineering, Aristotle University as well as faculty member of the specialized postgraduate course “Protection, Maintenance and Preservation of Cultural Heritage Structures”, School of Technology, Aristotle University and is the Director of the Laboratory of Strength of Materials and Structures, of Aristotle University.

He has served as member of the Scientific Committees and Session chairman in numerous International or National conferences on the subject of earthquake engineering, liquid storage tanks, masonry structures and cultural heritage structures and he has also served as a reviewer of scientific journals that include: Masonry International, Numerical Modeling, Structural Studies Repairs and Maintenance of Heritage Architecture, ASCE (Structural Division), Int. Journal Earthquake Eng. And Structural Dynamics, Earthquake Spectra.

He has been the Principal Investigator of numerous national and international research projects that

include the following five projects supported by the European Union:

- "SEISTEST- Volvi - a European Test site for Engineering Seismology and Earthquake Engineering" with the support of the European Community in the framework of the EEC program "ENVIRONMENT".
- ISTECH "Improvement of the stability against earthquakes of Cultural Heritage Structures", with the support of the European Community in the framework of the EEC program "ENVIRONMENT".
- "SEISMOD - Volvi Seismic Modeling earthquake ground motion and structural response", with the support of the European Community in the framework of the EEC program "ENVIRONMENT".
- "EPET II, project 456 Research and Development of bricks for the building of partially reinforced low-height buildings in areas of moderate seismicity in Greece. With the support of the General Secretariat of Research and Technology, Ministry of Development, Greece.
- "EURO-RISK" Seismic Hazard Assessment Site Effects and Soil Structure Interaction Studies in an Instrumented Basin" with the support of the European Union.

The following are some recent selected publications:

1. G.C. Manos, V. Kourtides, V. Soulis, A. Sextos, P. Renault "Study of the dynamic response of a bridge pier model structure at the Volvi – Greece European Test Site", 8th U.S. National Conference on Earthquake Engineering, San Francisco, 17-21 April, 2006.
2. G. C. Manos and V. Kourtides "Retrofitting R.C bridge pier type cross-sections with partial confinement employing carbon fiber reinforcing plastics", 8th U.S. National Conference on Earthquake Engineering, San Francisco, 17-21 April, 2006.
3. G. C. Manos and V. Kourtides "Retrofitting R.C bridge pier type cross-sections with partial confinement employing carbon fiber reinforcing plastics", 1st European Conf. on Earthquake Engineering and Eng. Seismology, Geneva, Switzerland, 3-8 Sept. 2006, Paper No. 198.
4. G.C. Manos, V. Kourtides, V. Soulis, A. Sextos, P. Renault "Dynamic response of a bridge pier model at the Volvi – Greece European Test Site including the soil flexibility", 1st European Conf. on Earthquake Engineering and Eng. Seismology, Geneva, Switzerland, 3-8 Sept. 2006, Paper No. 197
5. G.C. Manos, V. Kourtides, V.J. Soulis, E. Tsakmakides "Experimental and numerical investigation of the sliding behaviour of a set of two rigid blocks subjected to cyclic shear-type loads", 7th International Masonry Conference, London, Oct. 30 – Nov. 1, 2006.
6. G.C. Manos, V.J. Soulis, J. Thauampth, "Evaluation of the numerical simulation of masonry-infilled RC frames under cyclic loading" , 7th International Masonry Conference, London, Oct. 30 – Nov. 1, 2006.
7. G. C. Manos and V. Kourtides "Retrofitting R/C of Bridge Pier Type Cross-Sections with Partial Confinement employing Carbon Fiber Reinforcing Plastics" 9th Canadian Conf. on Earthquake Engineering, Ottawa, Ontario, Canada, 26-29 June 2007.
8. G.C. Manos, V. Kourtides, A. Sextos, P. Renault, S. Chiras "Study of the dynamic soil-structure interaction of a bridge pier model based on structure and soil measurements" 9th Canadian Conf. on Earthquake Engineering, Ottawa, Ontario, Canada, 26-29 June 2007.
9. G.C. Manos, V. Kourtides, V.J. Soulis, E. Tsakmakides "Experimental and numerical investigation of the sliding behaviour of a set of two rigid blocks subjected to cyclic shear-type loads", STREMAH 2007, Prague, 2007.
10. G.C. Manos, S. Mitoulis, V. Kourtides, A.Sextos, I. Tegos "Study of the behavior of steel laminated rubber bearings under prescribed loads" 10th World Conference on Seismic Isolation, Energy Dissipation and Active Vibrations Control of Structures, Istanbul, Turkey, May 28-31, 2007.
11. G.C. Manos, V. Kourtides, A. Sextos, S. Chiras "Soil-Foundation-Bridge Pier Interaction at the Euro-Seis Test Site", 4th Int. Conference on Geotechnical Engineering, Thessaloniki, 24-28 June, 2007.
12. G.C. Manos, V. Kourtides, P. Matsoukas Investigation of the flexural and shear capacity of simple R/C beam specimens including repair schemes with FRP", FRPRCS-8 Conf. Univ. Patras, Greece, July 16-18, 2007, paper No. 129.
13. G. C. Manos and V. Kourtides "Retrofitting of long rectangular R/C Cross-Sections with Partial Confinement employing Carbon Fiber Reinforcing Plastics" FRPRCS-8 Conf. Univ. Patras, Greece, July 16-18, 2007, paper No. 128.

14. G. C. Manos, K. Katakalos, V. Kourtides, Ch. Mitsarakis "Upgrading the flexural capacity of a vertical R/C member using Carbon Fiber Reinforcing Plastics applied externally and anchored at the foundation", FRPRCS-8 Conf. Univ. Patras, Greece, July 16-18, 2007, paper No. 130.
15. G.C. Manos, V.J. Soulis, A. Diagouma, "Numerical Investigation of the behaviour of the church of Agia Triada, Drakotrypa, Greece", Advances in Engineering Software, Vol. 39/4, pp 284-300, 2007.
16. G.C. Manos, V.J. Soulis, O. Felekidou, "The dynamic and Earthquake Behavior of Greek Post-Byzantine Churches", 14WCEE, Beijing, CHINA, 2008.
17. G.C. Manos, V. Kourtides, A. Sextos, "Model Bridge Pier Foundation- Soil Interaction implementing, in-situ / shera stack testing and numerical simulation", 14WCEE, Beijing, CHINA, 2008.
18. G. C. Manos, A. Sextos, S. Mitoulis, V. Kourtides, M. Geraki "Tests and Improvement of Bridge Elastomeric Bearings and Software Development for their Preliminary Design", 14WCEE, Beijing, CHINA, 2008
19. G. C. Manos, K. Katakalos, V. Kourtides, " Study of the anchorage of Carbon Fiber Plastics (CFRP) utilized to upgrade the flexural capacity of Vertical R/C members", 14WCEE, Beijing, CHINA, 2008
20. X. Μάνος, Β. Ι. Σούλης, Τ. Θαούμπα, "Αριθμητική Διερεύνηση της Επιρροής του Περιμετρικού Αρμού σε Τοιχοπληρωμένα Πλαίσια Ο/Σ υπό Οριζόντιο Ανακυκλιζόμενο Φορτίο, Numerical Investigation of the Influence of the Mortar-Joint between Infill and Frame for R/C Infilled Frames subjected to horizontal cyclic loading», 10^ο Συνέδριο Σκυροδέματος, Πάφος, Κύπρος, Οκτώβριος 2009.
21. G. C. Manos, V. J. Soulis, O. Felekidou, A. Koutsianou, P. Lipiridou, «The dynamic and earthquake response of Greek Byzantine and Post-Byzantine Basilicas», COMDYN 2009, Rhodes, Greece.
22. G.C. Manos, M. Demosthenous, E. Tsakmakides, V. Kourtides, "Experimental and Numerical Investigation of the Sliding Response for Drums located at Columns of Ancient Greek Temples", PROHITECH 2009, 21 to 24 June 2009, Rome, Italy.
23. G.C Manos, V. Soulis, N. Karamitsios, O. Felekidou, Numerical Simulation of the Dynamic and Earthquake Behaviour of Greek Post-Byzantine Churches with and without Base Isolation", PROHITECH 2009, 21 to 24 June 2009, Rome, Italy.
24. G. C. Manos and E. Papanaooum, "Earthquake Behaviour of a R/C Building Constructed in 1933 before and after its Repair" STREMAH 2009, Tallin, 22-24 June, 2009.
25. Manos George, Soulis V., Felekidou O., Karamitsios N., Kotoulas L., "Dynamic and Seismic Behavior of Greek Post-Byzantine Churches with or without Base Isolation", 8th International Masonry Conference, 2010, Dresden, Germany.
26. Manos George, Soulis V., Felekidou O., "Numerical Study of the Dynamic and Earthquake Behavior of Byzantine and Post-Byzantine Basilicas", 8th International Masonry Conference, 2010, Dresden, Germany.
27. G.C. Manos, A. G. Sextos, S. Mitoulis, M. Geraki, "Software for the Preliminary Design of Seismically Isolated R/C Highway Overpass Bridges", 9th U.S. National and 10th Canadian Earthquake Engineering Conference, 2010, Toronto, Canada.
28. Manos George, Soulis V., Felekidou O., Matsou V. "A Numerical Investigation of the Dynamic and Earthquake Behavior of Byzantine and Post-Byzantine Basilicas", 9th U.S. National and 10th Canadian Earthquake Engineering Conference, 2010, Toronto, Canada.
29. G. C. Manos, V. Soulis, O. Felekidou, N. Karamitsios, L. Kotoulas, "Numerical Study of the Dynamic and Earthquake Response of Greek Post-Byzantine Churches with or without Base Isolation", 3rd International Workshop on Conservation of Heritage Structures Using FRM and SHM, 2010, Ottawa, Canada.
30. Manos George, Soulis V., Felekidou O., Matsou V. "A Numerical Investigation of the Dynamic and Earthquake Behavior of Byzantine and Post-Byzantine Basilicas", 3rd International Workshop on Conservation of Heritage Structures Using FRM and SHM, 2010, Ottawa, Canada.