

ABRIDGED CURRICULUM VITAE



KARAKOSTAS CHRISTOS

Dr. Civil Engineer, A.U.Th.

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Date/place of birth : 29/04/1960, Argos Orestikon, Greece

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Educational Background

Diploma in Civil Engineering, Aristotle University of Thessaloniki (A.U.Th.), 1984

Doctoral Degree in Civil Engineering, Department of Civil Engineering, A.U.Th., 1989

Research Areas of Interest

Earthquake Engineering with emphasis on :

- Experimental and analytical investigation of the dynamic behaviour of structures, structural components, materials and non-structural components subjected to earthquake actions.
- Instrumentation of structures (buildings, bridges, dams) and evaluation of their dynamic response.
- Assessment of seismic risk of urban areas and seismic evaluation of existing buildings.
- New methods for seismic design and estimation of the seismic capacity of existing buildings (performance-based design methods, pushover and nonlinear dynamic analyses etc.)

Theoretical / Numerical Mechanics with emphasis on :

- Development of Finite Elements for the dynamic analysis of shell structures.
- Development of Stochastic Boundary Elements for the estimation of the propagation of seismic waves in soils with random properties.

Academic and Professional Experience

- Consultant Civil Engineer. Design and construction management of public and private civil engineering projects with emphasis on special structures such as industrial buildings (steel and R/C), bridges, tanks etc. (1984-1995)
- Researcher, Institute of Engineering Seismology and Earthquake Engineering (ITSAK) (1995-today)

Membership in Scientific and Professional Associations

- Technical Chamber of Greece (T.C.G.)
- Association of Civil Engineers of Greece (A.C.E.G.)
- Hellenic Society for Earthquake Engineering (H.S.E.E. – member of I.A.E.E.)
- Hellenic Society of Nondestructive Testing (H.S.N.T. – member of EFNDT and ICNDT)
- Hellenic Society of Computational Mechanics (GR.A.C.M. – member of I.A.C.M.)
- European Mechanics Society (EUROMECH)

Publications – Academic Activities

- Publications in refereed international journals, and conference proceedings with peer reviews (as of Sept. 2010) : 77
- Other scientific publications : 18
- Participation in 26 research programs (scientific coordinator in 3)
- Reviewer for 4 international journals
- External expert evaluator of research proposals submitted to European Union
- Evaluator of research proposals funded by the Greek Secretariat for Research and Technology

Selected publications [in International peer-reviewed Journals and Books during the last 7 years]:

George D. Manolis and Christos Z. Karakostas, **"A Green's function method to SH-wave motion in a random continuum"**, *Engineering Analysis with Boundary Elements*, 27, 2003, pp. 93-100

T. Salonikios, C. Karakostas, V. Lekidis & A. Anthoine, **"Comparative Inelastic Pushover Analysis of masonry Frames"**, *Engineering Structures*, Vol. 25, 2003, pp. 1515-1523

C. Karakostas, V. Lekidis, T. Makarios, T. Salonikios, S. Issam & M. Dimosthenous, **"Seismic Response of Structures and Infrastructure Facilities during the Lefkada, Greece Earthquake of 14/8/2003"**, *Engineering Structures*, Vol. 27 (2), 2005, pp. 213-227

Lekidis, V., Tsakiri, M., Makra, K., Karakostas, C., Klimis, N., and Sous, I., **"Evaluation of Dynamic Response and Local Soil Effects of the Evripos Cable-Stayed Bridge using Multi-sensor Monitoring Systems"**, *Engineering Geology*, Vol. 79, 2005, pp.43-59

A. Kappos, V. Lekidis, G. Panagopoulos, I. Sous, N. Theodulidis, Ch. Karakostas, T. Anastasiadis, T. Salonikios, B. Margaris, **"Estimation of economic loss for buildings in the area struck by the 1999 Athens earthquake and comparison with actual repair costs"**, *Earthquake Spectra*, Volume 23, No. 2, 2007, pp. 333–355

C. Z. Karakostas, C.J. Athanassiadou, A.J. Kappos, and V.A. Lekidis, **"Site-Dependent Design Spectra and Strength Modification Factors, Based on Records from Greece"**, *Soil Dynamics and Earthquake Engineering*, Volume 27, Issue 11, 2007, pp. 1012-1027

Evaggelos Ntotsios, Christos Karakostas, Vasilios Lekidis, Panagiotis Panetsos, Ioannis Nikolaou, Costas Papadimitriou & Thomas Salonikios, **"Structural identification of Egnatia Odos bridges based on ambient and earthquake induced vibrations"**, *Bulletin of Earthquake Engineering*, Volume 7, Issue2, 2009, Page 485-501

G. D. Manolis and C. Z. Karakostas, **"Bem Analysis of SSI Problems in Random Media"**, Chapter 4 in Book : *Boundary Element Methods for Soil-Structure Interaction*, W.S. Hall & G. Olivetto (Eds.), Kluwer Academic Publishers, 2003, pp. 175-228