

Professor Dr.-Ing. Anaxagoras Elenas

Department of Civil Engineering

Democritus University of Thrace

CURRICULUM VITAE

Xanthi 2018

1. PERSONAL

Name: Anaxagoras
Surname: Elenas
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Email: elenas@civil.duth.gr
Date of birth: 8th January, 1960
Place of birth: Hrisoupolis, GREECE
Family status: Married with two children
Nationality: Greek

2. UNIVERSITY EDUCATION

1984: Diploma at the Department of Civil Engineering at the University of Stuttgart, Germany.

3. ACADEMIC POSITIONS IN GERMANY

3.1 BEFORE DIPLOMA

1983-1985: Assistant student researcher at the Institute of Experimental Statics, Prof. Dr.-Ing. R.K. Müller, at the Department of Civil Engineering, University of Stuttgart, Germany. Scientific work in the analysis of pictures (obtained through the phenomenon of photoelasticity) of plastic models.

3.2 AFTER DIPLOMA

1985-1990: Assistant scientific researcher at the Institute of Statics and Dynamics at the Department of Civil Engineering of the Ruhr-University of Bochum, Germany. Research work in the field of nonlinear behaviour of reinforced concrete structures under seismic excitation, under the supervision of Prof. Dr.-Ing. W.B. Krätzig and Prof. Dr.-Ing. K. Meskouris.

1998: Guest Professor at the Institute of Statics and Dynamics, Department of Civil Engineering of the RWTH Aachen, Germany, from 1-3-1998 until 30-9-1998.

1999: Guest Professor at the Institute of Statics and Dynamics, Department of Civil Engineering of the RWTH Aachen, Germany, from 1-3-1999 until 31-3-1999.

4. DOCTORAL THESIS

1990: Doctoral thesis at the Department of Civil Engineering of the Ruhr-University of Bochum, Germany. The thesis has been realized during the presence at the Institute of Statics and Dynamics and it is entitled: "A contribution to the physical nonlinear analysis of three dimensional reinforced concrete wall stiffness systems". Supervisors of the doctoral thesis: Prof. Dr.-Ing. K. Meskouris, Prof. Dr.-Ing. W.B. Krätzig and Prof. Dr.-Ing. F. Stangenberg.

5. ACADEMIC POSITIONS IN GREECE

- 1992-1997: Lecturer at the Institute of Structural Mechanics and Earthquake Engineering at the Department of Civil Engineering of the Democritus University of Thrace, Xanthi, Greece.
- 1997-2007: Assistant Professor at the Institute of Structural Mechanics and Earthquake Engineering at the Department of Civil Engineering of the Democritus University of Thrace, Xanthi, Greece.
- 2007-2014: Associate Professor at the Institute of Structural Mechanics and Earthquake Engineering at the Department of Civil Engineering of the Democritus University of Thrace, Xanthi, Greece.
- Since 2014: Professor at the Institute of Structural Mechanics and Earthquake Engineering at the Department of Civil Engineering of the Democritus University of Thrace, Xanthi, Greece.

6. TEACHING EXPERIENCE

- 1.- "Structural Mechanics 1", fifth semester, at the Department of Civil Engineering of the Democritus University of Thrace.
- 2.- "Plates and Shells", seventh semester, at the Department of Civil Engineering of the Democritus University of Thrace.
- 3.- "Numerical Methods in Structural Mechanics", eighth semester, at the Department of Civil Engineering of the Democritus University of Thrace.
- 4.- "Finite Elements in Structural Mechanics", first semester, at the Structural Engineering postgraduate course at the Department of Civil Engineering of the Democritus University of Thrace.

7. FINAL YEAR PROJECTS SUPERVISION

Supervision of over 170 diploma theses and postgraduate theses.

8. DOCTORAL THESES SUPERVISION

Supervisor of 10 doctoral theses in the field of Statics and Dynamics of Structures.

9. FOREIGN LANGUAGES

English and German, excellent knowledge in writing and speaking. Scientific publications in both of these languages.

10. EXPERIENCE USING COMPUTER SYSTEMS

From 1982 until now acquired experience in the use of following computer systems:

PDP 11, IBM Mainframe, CYBER Mainframe, PRIME, APOLLO Workstation and IBM AT and compatible.

With all the above mentioned systems, scientific software has been developed and very good knowledge in the use of their operating systems has been achieved.

11. EXPERIENCE USING PROGRAMMING LANGUAGES

Fortran (excellent knowledge) and Prolog (basic knowledge).

12. PROFESSIONAL EXPERIENCE

Analysis and design of several (over 70) office buildings, bridges, factories and general purpose halls of reinforced concrete and steel, in Greece and in Germany.

13. MEMBER OF SCIENTIFIC ASSOCIATIONS

- DGEB (German Society of Earthquake Engineering and Structural Dynamics).
- EERI (Earthquake Engineering Research Institute).
- SSA (Seismological Society of America).
- ICRI (International Concrete Repair Institute).

14. SCIENTIFIC INTERESTS

Linear and nonlinear finite elements. Linear and nonlinear algorithms for Statics and Dynamics of Structures. Nonlinear laws of building materials. Software programming in the field of Statics and Dynamics of Structures. Software programming in the field of Numerical Mathematics. Application of computers in the field of Statics and Dynamics of Structures. Numerical methods in Structural Mechanics and Advanced Mathematics. Intelligent procedures (fuzzy logic, artificial neural networks, neuro-fuzzy procedures, adaptive neuro-fuzzy inference systems, genetic algorithms, support vector machines) and their applications in Statics and Dynamics of Structures. Hilbert-Huang transform and its applications in Statics and Dynamics of Structures.

15. PARTICIPATION IN CONFERENCES

Participation in 53 national and international scientific conferences since 1985. In most of them, with at least one oral presentation.

16. COURSE NOTES

- 1.- "Plates and Shells".
- 2.- "Numerical Methods in Structural Mechanics".
- 3.- "Structural Mechanics 1".
- 4.- "Finite Elements in Structural Mechanics".

17. REVIEWER IN INTERNATIONAL SCIENTIFIC JOURNALS

- 1.- "Computers & Structures".
- 2.- "Advances in Engineering Software".
- 3.- "Structural Engineering and Mechanics".
- 4.- "Earthquake Engineering and Structural Dynamics".
- 5.- "Bulletin of Earthquake Engineering".
- 6.- "Engineering Failure Analysis".
- 7.- "Scientific Research and Essays".
- 8.- "Measurement".
- 9.- "Earthquake Engineering and Engineering Vibration".
- 10.- "Advances in Concrete Construction".
- 11.- "Civil Engineer".
- 12.- "Journal of Seismology and Earthquake Engineering".
- 13.- "Journal of Structures".
- 14.- "Civil Engineering Infrastructures Journal".

18. EDITORIAL BOARD MEMBER OF INTERNATIONAL CONFERENCES

- 1.- Editorial Board Member of the "11th International Conference on Civil, Structural and Environmental Engineering Computing", 18-21 September 2007, St. Julians, Malta.
- 2.- Member of the International Scientific Committee of the "6th International Congress of the Croatian Society of Mechanics (6th ICCSM)", 30 Sept. - 2 Oct. 2009, Dubrovnik, Croatia.

- 3.- Editorial Board Member of the "12th Int. Conf. on Civil, Structural and Environmental Engineering Computing", 1-4 September 2009, Funchal, Madeira Islands.
- 4.- Editorial Board Member of the "13th International Conference on Civil, Structural and Environmental Engineering Computing", 6-9 September 2011, Chania, Greece.

19. LEAD GUEST EDITOR IN INTERNATIONAL JOURNAL

- 1.- Mathematical Problems in Engineering, Special Issue on Structural Damage Modelling and Assessment.

20. SCIENTIFIC PUBLICATIONS

- Number of doctoral thesis (Dissertation): **1**
- Number of publications in refereed national and international scientific conferences: **83**
- Number of periodical scientific publications: **1**
- Number of publications in refereed international scientific journals: **22**
- Number of chapters in scientific books: **2**

21. CITATIONS

The published papers have been cited over **450** times in publications of other scientists.

22. ACKNOWLEDGMENTS OF PUBLICATIONS

- Dimova, S.L., Elenas, A. "Seismic intensity parameters for fragility of structures with energy dissipating devices", *Structural Safety*, pp. 1-28, Vol. 24, 2002.
This publication is cited as TOP25 article within the journal "*Structural Safety*", during the period July-September 2004.
- Alvanitopoulos, P., Andreadis, I. Elenas, A., "Interdependence between damage indices and ground motion parameters based on Hilbert–Huang transform", *Measurement Science and Technology*, Vol. 21(2), pp. 025101-025115, 2010.
This publication is selected in a special collection by the Editors of the Institute of Physics (IOP) based (as announced) on one or more of the following criteria:
 - Substantial advances or significant breakthroughs.
 - A high degree of novelty.
 - Significant impact on future research.
- Alvanitopoulos, P. Andreadis, I. Elenas, A., "Interdependence between damage indices and ground motion parameters based on Hilbert–Huang transform", *Measurement Science and Technology*, Vol. 21(2), pp. 025101-025115, 2010.
This publication is selected by the Editors of the Institute of Physics (IOP) as most popular article, across all IOP journals (10% of articles were accessed over 250 times at a quarter).