

CURRICULUM VITAE
OF

IOANNIS CHOULIARAS

PROFESSOR AT TEI OF LARISSA

Karditsa 2008

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A. PERSONAL DATA

Name: Ioannis
Surname: Chouliaras
Fathers' name: Georgios
Birth date: 10-11-1956
Birth place: Farsala - Larissa - Greece
Marital status: Married – two kids
Home address: St. Raphael 7, 431 00 Karditsa
Telephone No: +30-24410-70842
E-mail: xouliar@teilar.gr
Languages: English

B. EDUCATION AND QUALIFICATIONS

EDUCATIONAL INSTITUTE	DEGREE	SUBJECT
Democritus University of Thrace	Diploma	Civil Engineering
University of ASTON in Birmingham	Master of Science	Construction Management and Economics
Aristotle University of Thessaloniki	Ph.D.	Soil Mechanics

C. AREAS OF SPECIALIZATION

- Soil Mechanics,
- Soil Erosion,
- Environmental Engineering,
- Structural Mechanics,
- Reinforced Concrete Constructions.

D. BRIEF CURRICULUM VITAE

- June 1974:** Graduation from high school of Farsala, Larissa, Greece, with grade Excellent (18^{6/12}).
- October 1974 - June 1980:** Civil Engineering studies at the Polytechnic School of Democritus University of Thrace and graduation with a Diploma.
- November 1980 - August 1981:** Work as a Scientific Cooperative at the Polytechnic School of Democritus University of Thrace.
- September 1981 - September 1982:** Postgraduate studies at the University of ASTON in Birmingham and graduation with a degree of Masters of Science in Construction Management and Economics.
- September 1982 - January 1983:** Work as a private Civil Engineer Designer and Constructor of public and private works in the area of Farsala.
- February 1983 - June 1985:** Civil Service in the corps of Engineers of the Greek Army.
- October 1985 - May 1989:** Contract Assistant Professor at the Technological Educational Institute of Larissa, Karditsa Annex, Department of Forestry, teaching the subjects of Soil Mechanics, Structural Mechanics and Reinforced concrete constructions. Also, full time Civil Engineer designer of private houses and contractor of A' class public roads, buildings and hydraulic projects in the area of Farsala.
- May 1989 - March 1992:** Lecturer at the T. E. I. of Larissa, Karditsa Annex, Department of Forestry, teaching the subjects of Soil Mechanics, Structural Mechanics and Reinforced concrete constructions.
- March 1992 – June 2002:** Assistant Professor at the Technological Educational Institute of Larissa, Karditsa Annex, Department of Forestry, teaching the subjects of Soil Mechanics, Structural Mechanics and Reinforced concrete constructions.
- November 2000:** Ph.D. degree from the Civil Engineering Department of Aristotle University of Thessaloniki.
- July 2002 – July 2006:** Associate Professor at the Technological Educational Institute of Larissa, Karditsa Annex, Department of Forestry, teaching the subjects of Soil

Mechanics, Structural Mechanics, Reinforced concrete constructions and Environmental Engineering.

August 2006 - Today:

Professor at the Technological Educational Institute of Larissa, Karditsa Annex, Department of Forestry and Natural Environment Administration, teaching the subjects of Soil Mechanics and Structural Mechanics.

E. WORKING EXPERIENCE

From November 1980 till September 1981 I was working as a Private Civil Engineer on the Building Design field in the area of Xanthi, Northern Greece, where the University of Thrace is seated.

From September 1982 till September 1985 I was cooperating with Mr. Karakitsios, Surveyor Engineer, in the field of Building Design in my birth place, the town of Farsala, Central Greece.

From October 1985 till May 1989 I was running a personal Civil Engineering office in the town of Farsala. My subjects were the design of private buildings and the construction of public projects in the fields of buildings, roads and hydraulics. In that period I undertook more than ten public construction projects.

From January 1994 till September 1999 I was supervising the construction of the civil engineering projects of the Department of Forestry in the Karditsa Annex and I was responsible for the maintenance of the buildings of the Department.

From October 1999 till today I have designed in cooperation with civil engineer Dimos Chouliaras the following construction projects of the TEI of Larissa:

1. Laboratory of wood furniture manufacture (budget: € 15.000).
2. New laboratory building of the Department of Wood and Furniture Design and Technology (budget: € 675.000).
3. Laboratory and Class building of the TEI of Larissa (budget: € 1.185.000).
4. New building of the Department of Wood and Furniture Design and Technology (budget: € 4.040.000).

The above four projects have been constructed under my supervision.

F. RESEARCH EXPERIENCE

F1. Head of Research Programs

From January 1999 till December 2003 I was the head of a five years research program with title “**Study of the surface strength of soils and their protection from degradation**”. This program was taking place in the laboratory of Soil Mechanics of the Department of Forestry in the Branch of Karditsa of the TEI of Larissa and it was aiming at the examination of the factors that affect the surface shear strength of cohesive soils. Another objective of the program is the protection of natural and artificial slopes from degradation by investigating the methods that can be used for the measurement of the surface shear strength of soils.

From April 2003 till August 2005 I was the head of the European Union program with title “**Upgrade and modernization of the undergraduate degree program of the Department of Forestry of the TEI of Larissa**”.

Also, from April 2003 till August 2005 I was the head of the European Union program with title “**Equipment for supporting the upgrade and modernization of the undergraduate degree program of the Department of Forestry of the TEI of Larissa**”.

From January 2004 till August 2006 I was the head of the research European Union program ARCHIMEDES with title “**Determination of the torrent environment and research of the erosion of the catchment of the lake Tavropos (Plastiras) for its protection against degradation**”.

F2. Participation in Research Programs

From November 1997 till June 2000 I participated in work groups of the European Union program with title “**Upgrade of the undergraduate degree program of the Departments of Forestry of Karditsa (TEI of Larissa) and Karpenissi (TEI of Lamia)**”.

From January 1998 till October 1998 I was a member of the work group that was responsible for the study of the necessity and implementation of the **Establishment of a new Department of Wood and Furniture Design and Technology in the Branch of Karditsa of the TEI of Larissa**. This Department now is running successfully.

From January 2001 until December 2005, I participated as a scientific collaborator in the research program with title “**Determination of the actions needed for the adaptation of the Greek wood units in the European market**”. Head of the program was Professor Ioannis Kakaras.

From May 2004 till August 2006 I participated in the research European Union program ARCHIMEDES with title “**Amendment of disturbed grounds from mining activity with the use of mud of biological cleaning**”. Head of the program was Associate Professor Byron Tantos.

From January 2005 till December 2006 I participated in the research European Union program 'Environment - PYTHAGORAS II – Support of Research Groups at the University of Thessaly' with title “**Influence of the construction of barriers in the central bed of the torrent «GERABINI» in Zagora in the transportation of materials and in the aquatic ecosystem of the zone of his estuary**”. Head of the program was Lecturer Marios Sapountzis.

G. ADMINISTRATIVE EXPERIENCE

During my work in the Karditsa Annex of the TEI of Larissa, I undertook several administrative positions, as seen in tables 1, 2:

Table 1 Administrative experience in the Department of Forestry

ACADEMIC YEAR	POSITION
1990 - 1991	Head of A' Course Group
1991 - 1992	Head of A' Course Group
1998 - 1999	Head of A' Course Group
1999 - 2000	Head of A' Course Group
2000 - 2001	Head of A' Subject Group
2000 - 2001	Vice-head of the Department and Head of A' Subject Group
2001 - 2002	Head of A' Subject Group
2001 - 2002	Head of Student Residences
2002 - 2003	Head of Student Residences
2003 - 2004	Head of A' Subject Group
2008 - 2009	Vice-head of the Department and Head of A' Subject Sector

Table 2 Administrative experience in the Department of Food Technology

ACADEMIC YEAR	POSITION
2004 - 2005	Head of the Department
2005 -2006	Head of the Department
2006 - 2007	Head of the Department
2007 - 2008	Head of the Department

H. TEACHING EXPERIENCE

H1. Teaching at the Democritus University of Thrace

From December 1980 until August 1981, I worked as a Scientific Cooperator in the seat of Construction Machines and Constructions Organization of the Polytechnic School of the Democritus University of Thrace with teaching and research duties.

H2. Teaching at the TEI of Larissa

Since September 1985 I teach the theoretical and laboratory part of the following subjects in the Department of Forestry of the TEI of Larissa:

- (a) Soil Mechanics
- (b) Structural Mechanics
- (c) Reinforced Concrete Constructions.

Since September 1999 till September 2004 I teach the theoretical and laboratory part of the following subject in the Department of Wood and Furniture Design and Technology of the Branch of Karditsa of the TEI of Larissa:

- (a) Elements of Machines.

From September 2004 I started teaching a new subject in the Department of Forestry of the TEI of Larissa:

- (a) Environmental Engineering.

From September 2005 till September 2008 I was teaching a new elective course in the Annex of Karditsa of the TEI of Larissa:

- (α) Writing and Presentation of Technical Reports.

H3. Teaching in Seminars

In November 1982 I participated by teaching in a seminar held in Kavala, Northern Greece, with title “**Work Study**” that was organized by the Hellenic Center of Productivity.

H4. Teaching in Complementary Education Programs

In the academic year 1987 – 1988 I was teaching at the School of Complementary Education of High School Teachers in Larissa the subject “**Statistics and Probabilities**”.

From September till December 1993 I participated by teaching in a program of professional education for TEI graduates with title “**Rehabilitation of degraded ecosystems. Reforestations – Plantations – Urban Green**”. That program was organized by the TEI of Larissa in the town of Karditsa. My teaching subjects were: Design and construction of technical pro-

jects in the woods, Stabilization of slopes and protection of the natural environment against soil erosion.

Since April 2002 I enlisted by the Certification National Center in the Record of Teachers on Continuous Professional Education as a teacher of theoretical and practical part in the category of civil engineering.

I. PUBLICATIONS

I1. Dissertations

1. Chouliaras I.G. (1982). "Optimal capacity expansion of a rolling stock maintenance department", M.Sc. Dissertation, The University of ASTON in Birmingham, 141 pages.
2. Chouliaras I.G., (2000). "Soil erosion by water. Study on the erodibility of cohesive soil materials", Ph.D. Dissertation, Aristotle University of Thessaloniki, 340 pages. (In Greek).

I2. Papers in Scientific Journals

1. Chouliaras I.G., Tantos V.A., Ntalos G.A. and Metaxa X.A. (2003). "The influence of soil conditions on the resistance of cohesive soils against erosion by overland flow", *Journal of International Research Publications*, Issue 3, p. 8.

I2. Papers in Conference Proceedings

1. Chouliaras I.G. and Tsotsos S.S. (1994). "Factors influencing the effectiveness of vegetation cover as a measure of slope protection from soil erosion", 5th Pan-Hellenic Pedology Conference, Xanthi, pp. 325-336. (In Greek).
2. Chouliaras I.G., Tsotsos S.S., Misopolinos N. and Chatzigogos Th. (1994). «Factors that influence the effectiveness of vegetation cover as a measure of stabilization of natural slopes», 7th International Conference of the Geological Society of Greece, Thessaloniki, 87-96.
3. Chouliaras I.G. and Tsotsos S.S. (1997). "Measurement of Surface Shear Strength of soils for Erodibility Estimations", 3rd Hellenic Conference on Geotechnical Engineering, Patra, 67-74.
4. Chouliaras I.G., Tsotsos S.S., Misopolinos N. and Arabatzis Th.. (2001). "Experimental Study of the Factors Affecting the Erodibility of Cohesive Soils", 4th Hellenic Conference on Geotechnical and Geoenvironmental Engineering, Athens, vol. 1, 227-234.

5. Chouliaras I.G., and Tsotsos S.S. (2001). "Experimental investigation of the factors influencing the erodibility of cohesive soils", Proceedings of the International Conference on the Ecological Protection of the Planet Earth I, Xanthi, vol. 1, 167-174.
6. Chouliaras I.G., and Tantos V.A. (2001). "Influence of soil properties on the erodibility of cohesive soils", Proceedings of the 3rd Balkan Scientific Conference on the Study, Conservation and Utilization of Forest Resources, Sofia, vol. III, 223-235.
7. Tantos V.A., Gakis St., Papaioannou Ath., Ntalos G.A. and Chouliaras I.G. (2003). "Organic matter and nutrients accumulation under a maquis ecosystem in central Greece", 5th International Symposium TECHNOMAT & INFOTEL 2003, Bourgas, Book 1, 7-12.
8. Ntalos G.A., Papadopoulos A.N., Tantos V.A., and Chouliaras I.G. (2003). "The potential for using flax and vine pruning chips as alternative lignocellulosic raw materials for particleboard manufacture", 5th International Symposium TECHNOMAT & INFOTEL 2003, Bourgas, Book 1, 3-6.
9. Chouliaras I.G., Tantos V.A., and Ntalos G.A. (2003). "A study on the influence of vegetation cover on the erosion of cohesive soils", International Scientific Conference for the 75 years of the Forest Research Institute of Bulgarian Academy of Sciences, Sofia, Volume 1, 105-112.
10. Tantos V.A., Barboutis J., Ntalos G.A. and Chouliaras I.G. (2003). "Utilization of individual fir for particleboard production. Solution or deterioration for the ecosystem", International Scientific Conference for the 75 years of the Forest Research Institute of Bulgarian Academy of Sciences, Sofia, Volume 1, 352-357.
11. Chouliaras I.G., Sapountzis M. and Soutsas K. (2003). "Studies on the management and erosion of the catchments of the lakes of Smokovos and plastiras for the eternal optimal usage of their surface waters", 3rd Scientific Conference on the Development of the Thessaly District., Larissa, 9 pages.
12. Gidakis N. and Chouliaras I.G. (2005). "Presentation – critical analysis of the energy operation of a prefab laboratory building of the TEI of Larissa and a new proposal according to the principles of bioclimatic design", International Conference SBO4MED «Sustainable Construction: Action for sustainability in the Mediterranean Region», Book of Abstracts, 19-20, Work 38, page. 11.
13. Ipsilandis P.G., Sdrolias L.G. and Chouliaras I.G. (2005). "Innovation and Tradition: Synergy instead of Conflict - A study on organizational aspects", International Conference – The impact of European Integration on the National Economy, Cluj-Napoca, Romania.
14. Podimata U., Sapountzis M., Mironidis D., Chouliaras I.G., Gakis S., Tantos V.A., Karmiris I., and Dimos G. (2007). "Use of geographical information systems (GIS) for monitoring hydrological conditions in small catchments", 13th Pan-Hellenic Forestry Conference, Kastoria, Greece.
15. Tantos V.A., Gakis S., Mironidis D., Podimata U., Chouliaras I.G., and Sapountzis M. (2007). "Mapping of soil conditions in an experimental catchment in Central Greece", 13th Pan-Hellenic Forestry Conference, Kastoria, Greece.
16. Gakis S., Sapountzis M., Papaioannou A., Papadopoulos S., Tantos V.A., and Chouliaras I.G. (2007). "Comparison of physicochemical characteristics of transported materials before and after the movement of a significant discharge in «GERABINI» stream (Zagora Pelion, Greece), 13th Pan-Hellenic Forestry Conference, Kastoria, Greece.
17. Chouliaras I.G., Sapountzis M., Stefanidis P., Mironidis D., and Stathis D., (2007). "The torrential environment in the watershed of the lake PLASTIRA (Central Greece)", 13th Pan-Hellenic Forestry Conference, Kastoria, Greece.

13. Books

Chouliaras Ioannis (2003). **Reinforced Concrete Constructions: According to Greek Reinforced Concrete Rule 2000**, Papasotiriou Publications, Athens. (In Greek). The book is written to serve the needs of the students of the Technological Educational Institutes of Greece that undertake the course.

14. Educational notes

In order to cover the needs of the students in the subjects that I teach in the TEI of Larissa, I wrote the following educational notes, which are distributed as a text among the students:

1. In 1997 I updated the educational notes on **Soil Mechanics**. These notes are distributed in the students of the Department of Forestry. The notes contain the following three volumes:
 - Soil Mechanics: A' Theory
 - Soil Mechanics: B' Applications
 - Soil Mechanics: C' Laboratory tests.
2. Also, in 1997 I improved the educational notes on **Structural Mechanics**, which are distributed among the students of the Forestry department. The notes contain the following two volumes:
 - Structural Mechanics: A' Theory
 - Structural Mechanics: B' Applications.
3. In 1999, when the new Department of Wood and Furniture Design and Technology was founded, I wrote educational notes on **Elements of Machines**, to cover the needs of the students of that department. These notes contain the relative theory, analytically solved applications and exercises to be solved by the students.
4. In the year 2000, I wrote a **Manual of the STATIK-3** software packet to help the students to use the relevant program in the local net of computers that exists in the laboratory of Structural Mechanics. The packet has been developed by the Swiss cubus company.
5. In 2001, I wrote a **Manual of the WALL** computer program for the use of the students in design of retaining walls in the subject of Soil Mechanics.
6. In 2002, I wrote a **Manual of the STATICS 2000** software packet in order to help the students in the design of reinforced concrete structures. The manual contains the basic information to use the program and an analytically presented example.
7. In 2003, I wrote educational notes on **Environmental Engineering**, which are addressed to the students of the Forestry department.
8. In 2004, I wrote educational notes on **Writing and Presentation of Technical Reports**, which are addressed to the students of the Karditsa Annex that undertake the elective course.

J. OTHER SCIENTIFIC ACTIVITIES

J1. Cooperation with Educational Institutes

During my research activities I had the opportunity to cooperate with the following Educational Institutes:

1. In the academic year 1994/95 in the framework of the E.U. program ERASMUS I visited the Laboratory of Experimental Geomorphology of the Catholic University of Leuven in Belgium aiming at the initiation of cooperation with the Head of the laboratory, Professor Jean Poesen, on soil erosion themes. In that visit I was accompanied by the Head of the Laboratory of Soil Mechanics of the Department of Civil Engineering of the Aristotle University, Professor Stefanos Tsotsos.

That cooperation of the three Educational Institutes contributed to the establishment of a laboratory of soil erosion in the Department of Forestry of the TEI of Larissa and helped me in doing my Ph.D. dissertation.

2. As the head of the research program with title “**Study of the surface strength of soils and their protection from degradation**”, I was cooperating with:
 - Professor Stefanos Tsotsos, Dr. of Soil Mechanics, Department of Civil Engineering, Aristotle University of Thessaloniki.
 - Professor Nikos Misopolonos, Dr. of Pedology, School of Pedology, Aristotle University of Thessaloniki.

J2. Participation in Scientific Societies

I am a member of the following scientific organizations:

1. Technical Chamber of Greece.
2. European Society for Soil Conservation (ESSC).
3. European Water Resources Association (EWRA).
4. Society of Thessalian Studies.
5. Hellenic Society of Soil Mechanics and Geotechnical Engineering (HSSMGE).
6. Of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE).

J3. Experience in Computer Use

During my teach and research career in the TEI of Larissa, I had the opportunity to use several computer software packets, such as:

- operational environment: MS-WINDOWS VISTA
- programming languages: BASIC, FORTRAN
- word processing: WORD 2007
- calculation sheets: EXCEL 2007
- presentations packet: MS PowerPoint 2007

- soil mechanics: LARIX-4
- structural mechanics: STATIK-3
- reinforced concrete: CEDRUS-4 and STATICS 2000
- wood constructions: WINWOOD
- steel constructions: METALCAD
- design program: AUTOCAD 2008
- architectural design: ARCHITECT
- mathematical packet: MATHCAD PLUS 6.0
- statistical packet: SPSS 12.

KARDITSA, NOVEMBER 2008

IOANNIS CHOULIARAS