

PERSONAL INFORMATIONS

Name - Surname: Alkiviadis Apostolopoulos

Occupation: Civil Engineer (PhD Candidate)

Nationality: Greek

Place and Date of Birth: Patras(Greece) , 31-8-1986

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EDUCATION

Graduate Civil Engineer from Department of Civil Engineering, University of Patras.

PhD Candidate, Department of Materials Science and Engineering, University of Giannena

PROFESSIONAL AND SCIENTIFIC SOCIETIES

Member of the Technical Chamber of Greece

Member of the Association of Civil Engineers

LANGUAGES: Greek, English

WORK EXPERIENCE

Since June 2010 he has been working as a freelance engineer in the engineering office called "PROTHESIS." The office specializes in Conservation-Restoration and Enhancement Structures, offering monitoring and structural integrity of the overall response of structures with the help of integrated systems ELOT EN 1504.

"PROTHESIS" Specialization of services:

The quality of service is based on extensive scientific and successful professional experience of the office on studies and analysis of new construction, pre-earthquake and aftershocks, Preventive control, inspections of existing structures and non destructive tests. An important service is to check the key technical characteristics of load-bearing structures of reinforced concrete. The measurements on existing structures, are made according to strict international protocols (EUROCODE, FEMA, ASTM, DIN) and respond reliably to key issues raised by the KANEPE and EC3-part3 about:

- *measurement of the remaining section and the mechanical performance of the reinforcing steel bars.*
- *plotting the existing stirrups in columns and beams.*
- *finding the level of corrosion of the rebars.*
- *measurement of the depth of carbonation in concrete.*
- *measurement of the chloride concentration in concrete.*
- *measurement of the electrical resistance, temperature and humidity of the concrete.*
- *the classification of construction materials, based on EN 206.*

PROFESSIONAL EXPERIENCE - WORKS

- Structural Design.
- Repair of old structures. Most important:
 - Building of Cultural Association "Hermes", (in square Georgiou in Patras).
 - Building Galanakis (Filopoimenos and Riga Ferraίου street in Patras).
 - Repair of Monastery of Maritsas in Santameri, Achaia.
 - Protection and mounting Church of St. Demetrius in Melinado, Zakynthos (delegated by the Ministry of Culture)
 - Construction of retaining wall of reinforced concrete to protect the ancient «Temple of Augustus »(Ilias street in Patras) (delegated by the Ministry of Culture).
 - Repair stone built (two- storey) building owned by "Cultural Association of Greek Ladies" in place Micha, Achaia.
 - Repair of central church of Ag. Elias, in ILIDA.
 - Repair of central church of Kristallovrish, Mesatidos.

TECHNICAL SEMINARS AND CONFERENCES ATTENDED

- 2nd International Conference, Vulnerability of 20th century cultural heritage to hazards and prevention measures, Kos 3-5 October 2005
- Workshop on Safety and Health, organized by Technical Chamber of Greece, May 2012, in Patras.
- Workshop on "Research results of the mechanical behavior of steel rebars" organized by Technical Chamber of Greece, 7. 3. 2009, in Patras.

- Conference on "Corrosion, Bonding and Ductility and KANEPE" in the technical workshop, organized by Infacoma, 18. 10. 2010, Athens.
- Conference on "The Aging of Concrete Structures" in the relevant workshop, organized by DEPARiou 25. 3. 2010, Rio.
- Seminar on "Corrosion of Steel Construction and consequences in Safety" at the technical workshop, Sika Hellas, 18. 02. 2011, Thessaloniki.
- Conference for the Eurocodes on "Design of Concrete Buildings based on Eurocodes", which organized by Technical Chamber of Greece , EPPO, Hellenic Institute, 17-18 June 2011 in Patras.
- Follow the conference on "Building Resilience and Sustainability", organized by the Technical Chamber of Greece, Nov. 9, 2011, in Agrinio.
- Conference (duration 5 hours) ,(engineers OSK) on "Materials" for Reinforced Concrete according to Eurocodes 0,1,2 and 8. 24. 1. 2011, in Athens.
- Training Academy on the subject of repairs and interventions in construction, Sika Hellas.
- Participation in the webinar « Push Over Analysis with ETABS », organized by CSI Hellas. (26,27 May 2011).
- Participation in the webinar « KAN.EPE, the final version», organized by "THLEKPEDEYSH OE". (20-23 .9. 2011).
- Participation in the webinar « Structural Design with ETABS », organized by CSI Hellas. (3-5 October 2011).

PUBLICATIONS-RESEARCH WORKS

-As part of the research activity, he drafted thesis in the laboratory of Technology and Strength of Materials, Department of Mechanical-Aeronautical Engineering, University of Patras, on "Experimental study of the mechanical behavior of welded steel connections after using UIT (Ultrasonic Impact Treatment.», which presented to the department of Civil Engineering at the same University.

-Participation in the research program "Rusteel", where he worked on the evaluation of the mechanical behavior of steels bars (from different countries of the European Union) (Before and after corrosion) after tensile tests and seismic loads (LCF).

At the same time, he participated in developing technical research papers which were published in various conferences.

1. Ch.Apostolopoulos, Alk. Apostolopoulos, Sot. Apostolopoulos, "Problems of corrosion and structural integrity of the religious structures of reinforced concrete", 1st International Congress for Temple Constructions - Tradition and Modernity in Modern Church Architecture, Athens 6 & 7 June 2008.

2. Alk. Apostolopoulos, Sot. Apostolopoulou "misguided technical interventions in historic churches of Lefkada" ETEPAM 2nd Conference, May 21-24, 2009 - Athens.

3. P. Savvopoulos, Alk. Apostolopoulos, L. Dimitrov, «Design of a measurement platform for communications systems», 8th Iinternational Congress, machines, technologies, materials, 18 - 21 Sept. 2011, Varna, Bulgaria, Year V, Issue10 / 2011 ISSN 1313 -0226, pp. 33-37.

The work was published in the journal Engineering Design Issue No9, September 2011, pp.27-33.

4. Alk. Apostolopoulos, C. Rodopoulos, «Using UIT technology to improve the fatigue behavior of welded connections," 7th National Conference on Steel Structures, 29-30 September and 1 October 2011 Volos vol. 2, pp. 593-599.