Frederick University

Academic Personnel Short Profile / Short CV

University:	Frederick University
Surname:	Touliatos
Name:	Panagiotis
Rank/Position:	Professor
School:	Engineering
Department:	Architectural Engineering
Scientific Domain:	1.-Architectural Technology 2.-Conservation and Restoration of Historical Structures and Monuments

Academic qualifications

Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
Architect – Engineer H ighest distinction of the year winning the "Thomaidion Nominal Award of NTUA 1965 and the official invitation for Academic Career	1965	National Technical University of Athens	Department of Architecture	"Original Settlement on the Hill ofTurkovounia in Athens"
From November 1969 to August 2008, he was elected, in accordance to the law,	1969 - 2008	National Technical University of Athens	Department of Architecture	

in succession at all levels of the Academic Teacher, up to the Professor's level, up to the permissible age limit.				
In 2008, on 31 August, according to Rectors Act no. 33962 / 04-12-2007, in accordance with the laws, P. Touliatos abstained from his office as a Professor of the NTUA having completed the statutory age limit. At the meeting held on 29 / August 2008, an official honorary event was to acknowledge the work of its offer to the Foundation. (Invitation to the Rector's Office of the NTUA of 1 July 2008 with Provincial No. 20274) In 2009, with a letter dated June 9 and no. 16132, the Senate of the NTUA announced that the: Senate of the NTUA (Extraordinary Meeting of the Senate on 29-05-2009) unanimously "awarded him with the title of Professor Emeritus, while expressing its warm thanks for his contribution to the	2008	National Technical University of Athens		

National Technical University of Athens"				
Professor at Frederick University from February 2009 until today and Head of the Department of Architecture of the School of Engineering 2009-2023		Frederick University School of Engineering	Department of Architecture	

Employment history in Academic Institutions/Research Centers				
Period of employment		**Employer**	**Location**	**Position**
From	**To**			
1969	2008	National Technical University of Athens	Athens – Greece	Professor - Researcher
2009	today	Frederick University School of Engineering Department of Architecture	Nicosia - Cyprus	Head (2009 - 2023) **Professor - Researcher**

Key *refereed* journal papers, monographs, books, conference publications etc.						
Ref. Number	**Year**	**Title**	**Other authors**	**Journal and Publisher / Conference**	**Vol.**	**Pages**
1	2022	Book Publication: "Wood in Buildings. Design and Construction Guide'. 2022 –P. Touliatos: "Design of Timber Construction".		"Building Publications" - ISBN: 8960 6803 239.		(pages 62-71)
2	Feb 2022	"The Dialect of Historic Buildings. Professor and President of the Department of Architectural		Newspaper/Article 'Kathimerini'		

		Engineering at Frederick University Panagiotis Touliatos speaks to "K"				
3	Dec 2022	– Presentation at the Lyceum of Agios Antonios in Limassol. 1st High School class students. P. Touliatos: "The Profession of the Architect"		Presentation/Agios Antonios High School		
4	Octob 2021	The First Monday of October. "On the occasion of Day of Architecture ". Article P. Touliatos: "Buildings are also children of the Earth and the Sun."				
6	Octob. 2018	"Experimental attempt to substitute a lost antiseismic timber reinforcement in a Venetian Monument in Kefalonia."	Panos Touliatos - Professor of Architecture, Frederick University - Emeritus Professor NTUA Harris Mouzakis -Assistant Professor, School of Civil Engineering - NTUA	1st International Conference on Transdisciplinary Multispectral Modeling and Cooperation for the Preservation of Cultural Heritage (TMM_CH) Eugenides Foundation Athens, Greece 10-13 Octob. 2018		12
7 ISBN 978-3-319-39491-6 ISBN 978-3-319-	2015	"Cooperating Timber and Stone Antiseismic Frames in Historic Structures of Greece ." (Chapter)	Prof. Panos Touliatos	Historical Earthquake-Resistant Timber Framing in the Mediterranean Area (Book of 468 p) HEaRT 2015	01	12

39492-3 (eBook)				Springer International Publishing Switzerland 2016		
8 ISBN:978-9963-2073-0-5	2012	"Το Ξύλο και η Ξύλινη Κατασκευή." "Timber Construction Manual"	Prof. Panos Touliatos Z. Konteas E. Tsakanika	Cyprus association of timber and building materials. importers and dealers.	01	174
9	2010	"Architectural Footprints of Industrial Archaeology in Lavrion. From documentation to reuse."	Program conducted by NTUA´s Architectural Technology Research Unit under the Academic Supervision of Panos Touliatos, Architect, NTUA Professor.	Athens NTUA Argo Publishing Co.	01	154
10 ISBN:978-960-88489-5-5	2008	"Ιερά Μονή Δοχειαρίου Αγίου Όρους. Η Αρχιτεκτονική του Καθολικού και του Πύργου." "Holy Doheiarion Monastery on Mount Athos . The Architecture of the Katholikon (main Church) and the Defensive Tower."	Prof. Panos Touliatos	Α' Έκδοση © Εθνικό Μετσόβιο Πολυτεχνείο, 2008 First Edition © National Technical University of Athens, 2008 MRV - PRODUCTIONS	01	134
11	2006	"Τεχνικό Επιμελητήριο Ελλάδος. Οδηγός Δομικών Υλικών. Το Ξύλο ως Δομικό Υλικό." "Technical Chamber of Greece. Building Materials Guide.	Prof. Panos Touliatos Prof. E. Katsaragakis E. Tsakanika R. Kresteniti	Editor: Technical Chamber of Greece.	01	68

		Wood as a Building Material.”		http://portal.tee.gr/portal/page/portal/MATERIAL-GUIDES/KSILO		
12	2004	Antiseismic Planning and Protection Organisation of Greece.- NTUA “Evaluation and drafting of recommendations for the interventions to the structures of the Historical Settlement of Lefkada.”	Prof. Panos Touliatos Prof. E. Vintzilaeou e.a.	National Library of Lefkada	01	73
13	2003	Antiseismic Planning and Protection Organisation of Greece.- NTUA “Approach, identification and Intervention in Historic Constructions. The Technological Point of View.”	Prof. Panos Touliatos	NTUA School of Architecture. Athens	01	36
14	2009	“Modern structures under earthquake.” “Σύγχρονες κατασκευές και σεισμός.”	Prof. Panos Touliatos N. Andrielou	Fire Brigade Academy of Greece.	01	189
15	2004	“Behaviour in the seismic strain of historical and traditional structures.” “Συμπεριφορά στην σεισμική καταπόνηση των ιστορικών και παραδοσιακών κατασκευών.”	Prof. Panos Touliatos	Antiseismic Planning and Protection Organisation of Greece.- NTUA	O1	69

Exhibitions					
Ref. Number	**Date**	**Topic**	**International / Local**	**Location**	**Role in Exhibition**
1	2003	2003 / Indoor Swimming Pool of the "Hellenic American Educational Institute" in the location «Kantza of Attica» After two consecutive architectural competitions, the study of the Swimming Pool was taken over by P. Touliatos. As defined by the Architectural Contests, it is an innovative experimental effort to make the swimming pool function with natural lighting, ventilation and cooling in all its areas, without any relevant mechanism and the consequent energy expenditure. As defined by the Architectural Contests, it is an innovative experimental effort to make the swimming pool function with natural lighting, ventilation and cooling, in all its areas, without any relevant mechanism and the consequent energy expenditure. In order to achieve this bioclimatic and energy saving function, during the initial architectural conception, a suitable choice of building	Employer: Hellenic American Educational Institute. Total volume: 185027m³ Budget: € 1,995,000	«Kantza Attica» Greece	Architect - Engineer

		materials and corresponding load bearing components design were made so that the shape and volumes of the building ensure it. Thus, the cover of the swimming pool centre, which contains the 25 x 21 meters swimming pool and stands for 294 spectators, is designed with three – hinged wooden arches of about 40 meters of span. The complex is subdivided into three subsets: - Lockers and auxiliary areas - Main tank and viewers' stands space. - Boiler and engines room The three subsets are statically independent safeguarding, despite poor soil quality and , simple and inexpensive foundation.			
2		2008 / "Angelos Sikelianos" Museum in Lefkada. This is an excellent example of the famous and unique anti-seismic construction of Lefkas. Repairs and transformation of the surviving, in a very poor condition, house of Angelos Sikelianos in the city of Lefkas in a Museum was assigned directly to Professor P. Touliatos due to his long-term	Employer: "National Bank of Greece" Owner: «Municipality of Lefkada» Budget: € 1,500,000	Lefkas – Ionian Island with the highest seismicity in Europe.	Architect - Engineer

		research engagement and specialization on this rare historical building system. The study included the Architectural Survey, the Constructional Analysis of this specimen of Lefkas characteristic hyperstatic historical system, Pathology and Vulnerability Assessment, Change of Use and the provision of the necessary facilities and networks in this Historical Shelter.			
3	2009	«Sports Swimming Pool Bioclimatic Centre in Pallini, Attica, Greece » It is a modern sports swimming centre with bioclimatic and energy – saving operation in all areas. The central roofed 22 x 35 room housing the 25 x 13,30-m long, five-way main swimming pool has a mechanically opening roof for more complete and inexpensive ventilation and lighting.	Employer: "ATHLODYNAMICS SA" Total Surface: 1,114.66 M2	Pallini, Attica, Greece	Architect - Engineer
4	2003	Vacation Campus for children of Europe inside the Parnis Mountain forest.	Employer: Bank of Greece. Property Area: 109 acres on Mount Parnis	Mount Parnis, Attica - Greece	Architect - Engineer

		During the 1999 catastrophic earthquake in Athens, the whole building complex of the Children's Camp sites of the Bank of Greece in the foothills of Parnis Mountain collapsed, fortunately, a few days after the closure of the Campus and the departure of 400 children. The management of the Bank of Greece decided that the reconstruction of the facilities should be made entirely of wooden antiseismic and bioclimatic construction. The assignment was made to Professor P. Touliatos, because of his specialisation in both those scientific fields, and the completion of the studies was completed in 2003. This is a total of 4638m² of campsites covering an area of 109 acres at the foot of Mount Parnis. The cost of the investment reached 3710400 € and during the 2004 Olympic Games in Athens the camp was chosen to function as a hosting venue for selected foreign journalists.	Total Building Surface: 4638m² Budget: € 3,710,400		
5	2009	**2009 "Equestrian Academy" of Athens.** It is a modern, complete complex of Cavalry Sports, outside Athens,	Employer: Private company.	Krerezi - Koropi – Attica- GREECE	Architect - Engineer

		with a central covered track and training course measuring 51.50X104.50 meters covered by a load-bearing frame consisting out of three- hinged Glulam arches. The complex contains all the necessary stables, training fields, games, staff stay, administration department, catering facilities, conferences rooms etc. in an area of 82,000 sq. meters. All the structures of the five building blocks of the Academy have been designed with modern structural methods, using reinforced concrete, steel and glulam components. All rooms are designed to have the highest possible level of lighting, shading and ventilation capabilities in a natural way and with minimal energy expenditure.			
6	2006	**"Housing and functional completion of the open-air swimming pool of Athens College"** After the successful bioclimatic operation of the "Kantza Swimming Pool" in Kantza, the "Hellenic American Educational Institute", or "Athens College", commissioned the design of the housing and functional integration	Employer: "Hellenic American Educational Institute." Total area: 17,910.70m^2 Budget: € 1,592,000	"Psychiko School Complex" in Athens.	Architect - Engineer

		of the open college swimming pool at "Psychiko School Complex" of the above College in Athens. Total coverage and additions were 17,910.70m^2. The swimming pool is ventilated and cooled, without mechanical support, by suitably designed load bearing components so that the final shape of the shell ensures the above requirements. The three – hinged glulam arches are housing the pool, while steel and reinforced concrete were used properly for other components.			
7	2001	**"Study of wooden experimental specimen for the Hospitality of Journalists of the 2004 Athens Olympic Games"** This is a sample of a three-room unit with a diaphragmatic "Timber Frame" structure. The entire complex has been designed so that it can be prefabricated either as wall elements or as room units. This is an evolution of the classic Timber Frame system by adding to the traditional panel two surfaces of a third layer of exterior outside the construction.	Employer: "Athens 2002" Budget: Drachma 15,000,000 : € 44000 Study Architect : P. Touliatos Statics: E. Tsakanika	Athens Olympic Games	Architect - Engineer

		This third level is constructed in such a way that it can be moistened and ventilated on both sides. This way, its durability is greatly increased over time, with no special maintenance. An advantage is the easy repair, replacement or change. By constructing this external plane of the faces the waterproofing of the basic load-bearing panel is fully protected and the thermal insulation of the whole unit is increased.			
8	2000	**"Protective coverage and increase of the areas of the Parnassos Ski Center at the top of the mountain"** This was a closed competition for proposals for "REPAIR, REINFORCEMENT AND EXTENSION OF THE SKI STATION OF PARNASSOS AT THE "KELLARIA" POSITION. " at an altitude of 1950 meters. This particular proposal, which was implemented, proposed that the 70-years-old weakened reinforced concrete building should be protected by a steel and wood shell. The new shell of a total static span of 37.57 meters does not statically	Employer: «ATHINAIA-PAPARGYROPOULOS LTD» Budget: GRD 268,000,000 : € 786,500 Study Architects: D. Boukouras - P. Touliatos Civil. Engineers: E. Tsakanika - Ev. Filleris Static Span of the main load bearing components:37.57 meters	**Parnassos Mountain in Greece.**	Architect - Engineer

		or dynamically charge the existing building and, besides its protection from snow loads and climatic influences, it ensures the new necessary areas of use. The vertical load bearing frame, of a maximum height of 14,31 meters, is a steel truss. The horizontal bearing structure of the new coverage, of a surface about 1408 square meters, is of glulam double components.. A special care has been made in the study for the transfer to the top of the mountain of steel (from Athens) and wooden (from Italy) elements in sizes and shapes that could face the rough and inaccessible road network. It was envisaged how to connect and rectify large structural components in a minimal time with limited mechanical means (two truck cranes) The entire construction was completed between 17 August and 10 November 2000. Extreme charging conditions (high snow load, excessively strong winds and large temperature variations in a short period of time) dictated a special study of the exterior facades windows.			

9	2000	**"Coverage of Swimming Pool, Conference Center and Entertainment Center at Hotel NEPTUN in Mastichari, Kos."** These are covers of various spaces including a closed swimming pool with a static opening of 12.00 meters with various types of original glulam components and their joints.	Employer: "Olympic Holidays" Budget: 166,000,000 drachmas 487160.00 Euros Study Architectural: P. Touliatos Statically: E. Tsakanikas	**Mastichari, Kos Islands**	Architect - Engineer
10	1996	**"Study of coverage of Halandri Swimming Pool with static span of 35,00 meters".** These are glulam arched vectors bridging the above opening. The secondary components are also of glulam beams.. The surface of the final cover does not follow the cylindrical shape of the primary vectors, but with the help of steel triangular trusses, fixed to them, secures its flat form allowing natural ventilation and illumination of the structure.			Architect - Engineer

Research Projects				
Ref. Number	**Date**	**Title**	**Funded by**	**Project Role**
1	2014	"Constructional Analysis of the domed structure of the Katholikon	Financier: Frederick University	*Scientific/Project Coordinator*

		of the Docheiarios Monastery, Mount Athos, Greece". In the first phase, the existing topographic and photogrammetric survey of the upper part of the Catholicon of the Holy Monastery, carried by NTUA in 2001, was confirmed and elaborated. A detailed architectural survey of the upper dome structure of the Catholicon followed, along with a thorough constructional analysis. A historical, typological and constructional research was carried out, in order to analyze and classify the constructional particularity of the domes, which were built without a formwork. Finally, a restoration proposal was submitted and approved by the responsible technical board for Mount Athos Area (ΚΕΔΑΚ).	Research Center, in collaboration with Docheiarios Monastery, with a budget of 25,000 EUR.	
2	2009-2010	«Pilot research on building documentation and investigation of the Monumental Building Pathology. VILLA ROSSA, 19th-century listed building in the city of Corfu, as an example of application»	Date of Protocol: 45-7 / 2009 of the Prefectural Council of Corfu Island	*Scientific/Project Coordinator*

		VILLA ROSSA has always been one of the most famous and imposing mansions of the historic city of Corfu, which is a UNESCO World Heritage Site, and whose glamor is still preserved. Unfortunately, the peculiar method of construction, the ageing, the humidity, the extensive use and the abandonment brought the Monument to a critical state of being. This research aims at recognizing and recording this unusual building system, recording its pathology, assessing its behavior in loads, and proposing immediate rescue and rehabilitation measures	Budget Euro:164.500,0 € Financier: Prefecture of Corfu Island	
3	2007-2008	«Development of modern topographic methods for the geometric documentation of Byzantine monuments, with a pilot application at the Holy Monastery of Saint Lucas of Boeotia in Greece» The aim of the Research Program is to create the necessary digital design	NTUA Code : 61/183600 Date of Protocol: Ministry of Environment and Culture / Directorate of Byzantine and	*Scientific/Project Coordinator*

		background for the plans, views and sections of the Great Catholicon by means of topographical and architectural methods for the complete study of architectural survey, its pathology and proposals for restoration of the Monument, which is being prepared by the Department of Byzantine Monuments Studies of the Directorate of Byzantine and Post-Byzantine Monuments.	Post-Byzantine Monuments / 42296/1458 / 27.07.2007 Decision of the Minister Budget Euro: 75.000,0 € Financier: Ministry of Environment and Culture (ΥΠΠΟ)	
4	2001 - to date	«Instrumental monitoring of the Byzantine Catholicon of the Holy Monastery of Saint Lukas of Boeotia in Greece» The Byzantine Catholicon of the 10th Century Holy Monastery of Saint Lukas, famous for its architecture and mosaics, is built on one of Europe's most seismic sites, on the brink of a fault over a steep altitude difference. Having suffered a series of severe earthquakes and anthropogenic burdens and being a UNESCO World	NTUA Code : 61/132900 Protocol Date: 1/11/2001 to date Budget Euro: €378.580,0 Financier: Ministry of Culture of Greece	*Scientific/Project Coordinator*

		Monument, there was a direct need to assess its strength and, more generally, its expected behavior in a strong earthquake. With this research, the entire Catholic, after relevant studies, was equipped with special instruments for measuring minimal differential movements and distortions. A specially developed software monitors, on a continuous basis, all this behavior recorded by said instruments. A special laboratory has been organized in the church's loft, which is in direct electronic connection with the NTUA. Already unique behavior figures of the church, especially during recent earthquakes, have been gathered. By gathering these data and studying them, it will be possible to point out any weaknesses of the monument and achieve timely reinforcement.		
5	2001-2002	«Wooden Handwork / Wooden Carpentry. European Restoration Sites»	NTUA Code : 63/126600	*. Scientific/Project Coordinator*

		This is a trans-European research on ethics and methodology for the repair, reinforcement and restoration of historic structures with wooden elements. After Finland, Italy, Portugal and Belgium Hellas. with the coordinator of the Organizing and Scientific Committee P. Touliatos, organized an International Seminar in the Technological and Cultural Park of Lavrion with the title: «Environmental, Social, Functional and Loading Conditions as Main Factors for the Invention and Development of Characteristic Timber Structural Systems. »	Date of Protocol: 29/10/2001 Budget Euro: € 9.451,0 Financier: E.C. Contract number No.2000-1174 / 001-001	
6	2000	«Behavior in Seismic Action of Historical and Traditional Structures. Historical, Antiseismic Constructions in the Aegean.» The survey was completed and printed in two parts. The first one records and analyzes the behavior in the stresses of historical constructions, mainly as single spatial sets and describes how the various structural techniques	NTUA Code : 62/126800 Date of Protocol: 28/12/1999 Euro Budget: € 14,673,0 Financer: Organization for Antiseismic Design and	*Scientific/Project Coordinator*

		ensured in their buildings such behavior in the wider region of the Aegean, from prehistory to the present time. The often-inventive and original use of wooden components and timber structures ensuring the above behavior, of a box - framed entity, is presented and described. In the second part of the survey, ten characteristic examples of structural constructions, from the wider region of the Aegean, are presented and described in detail with their structural system and relative details which ensure their considerable resistance to dynamic stresses. Many of the above items are original, published for the first time. This second part of the research reveals the role of wood and wood structures in these specific structural systems that help them to achieve spatial, uniform behavior under the loads. The research was delivered in Greek and English. OASP (Organization for Antiseismic Design and Protection) has incorporated the survey as a whole	Protection (ΟΑΣΠ)	

		into the online web in the portion of the «European Center for Earthquake Prognosis and Prevention.»		
7	2000	«Management of the European building heritage. Principles governing the restoration of old and modern wooden buildings». It is a trans-European research collaboration supported by the Raphael program of the EU. This co-operation organized three seminars in three European countries (Helsinki and Oulu in Finland, Gavle in Sweden and Turin in Italy) during the period 1999-2000 and a joint video seminar between Oulu, Helsinki, Gavle, Turin and Athens. The aim was to improve techniques and ethics, as well as their homogeneity among European countries for the protection and rescue of historic, wooden construction. This collaboration also produced two books published by the University of Oulu with the participation of all	NTUA Code : 65/084500 Protocol Date : 20/04/2000 Euro Budget: € 4.871,0 Financier: NTUA Special. Research Account	*Scientific/Project Coordinator*

		partner countries in the research: of the «European wooden building heritage» with 160 pages and the «Restoration of old and modern wooden buildings" with 207 pages, both in English. Following a proposal from Greece, a first European Catalog was created, in the shape of A3, containing characteristic, historic wooden constructions from Finland, Italy and Greece, entitled: «European Timber Constructions».		
8	2000	«Study of Masonry reinforced by Horizontal Wooden Elements in the Masonry Body. Compilation of Instructions for Structural Interventions» This research attempts for the first time to systematically investigate and record the typology of horizontal wooden reinforcements in the masonry of historical and traditional structures in, particularly seismogenic, Southern Balkans. It also attempts to develop deontology and methods for	NTUA Code : 62/134600 Date of Protocol: 08/12/2000 Euro Budget: € 58.666,0 Financer: Organization for Antiseismic Design and Protection (ΟΑΣΠ)	*Scientific/Project Coordinator*

		detecting, identifying, recording and evaluating the status of horizontal reinforcements of masonry. Finally, attempts are being made to develop methods of repair, replacement and substitution of these wooden elements. In this research program in addition to the School of Architecture cooperated researchers from the School of Civil Engineering and from the Laboratory of the Ministry of the Civilization.		
9	1999	«Historical Buildings in Seismic Areas. The Case of Nisyros. The historical buildings of the island and the problems posed to seismic danger.» An International Seminar in Mytilene Island followed the Research. At the international meeting of seven European countries, the issue of approximation, recognition, recording and structural analysis of the typical, local structural systems of the Aegean as well as other	NTUA Code : 62/121700 Date of Protocol: 25/11/1999 Euro Budget: € 2,934,0 Financer: Organization for Antiseismic Design and Protection (ΟΑΣΠ)	*Scientific/Project Coordinator*

		regions of Europe was presented and discussed.		
10	1999	«Construction Analysis of the Local Building Systems of the Anavatos Settlement in Chios. Intervention and reinforcement instructions.» It is a detailed inventory, investigation and analysis of the constructional typology of the buildings of the preserved medieval settlement of Anavatos. A system of wooden bracings was discovered and studied within the masonry, just above the genesis of the domes. The pathology and the vulnerability as well as the typical failure process were analytically examined. With the help of ACCORD Acp - version 3.0.4 software for Windows - ITECH - Computers and Structures, the behavior of both, standard units and corresponding sets, was evaluated. The simulation of the buildings was done with a spatial vector and the division of the masonry into surface finite elements.	NTUA Code : 62/126700 Date of Protocol: 28/12/1999 Budget Euro: 58,694.0 € Financier: Public Enterprise Urban Planning and Housing (Δ.Ε.Πο.Σ. ΑΕ)	*Scientific/Project Coordinator*

		Finally, the research concludes with proposals for immediate rescue measures as well as instructions for repairs, strengthening and rehabilitation. The research has been finalized, presented, tested and approved unanimously by the Programming Agreement, the Ministry of the Interior, the DEPOS and the Ministry of the Aegean in a special meeting.		
11	1998-	«Research Program of Housing Methods for the Protection of Byzantine and Post Byzantine Monuments by Wooden and Composite Structures. Pilot application in the Paleochristian Basilica of Dumetios I in Nicopolis.» After this Research Program specifications for the design of covers of archaeological sites of this type with a light construction were drawn up for the Ministry A pilot application was made on the basis of the above, for the protective cover of the ruins of the Early	NTUA Code : 61/105300 Date of Protocol: 26/11/1998 Budget Euro: 39.823,0 € Financier: Greek Ministry of Culture	*Scientific/Project Coordinator*

		Christian Dumetian I Basilica in Nikopolis.		
12	1997 - 2001	«Architectural and Constructional Survey and Structural Evaluation of Holy Docheiarion Monastery of Mount Athos» During the investigation, in the first phase, the topographic and photogrammetric depiction of the Catholicon and the Lite of the Holy Monastery was completed. Immediately followed the Architectural Survey of the Catholicon, the two-story Lithe and the Bell – Tower. At the same time, the complete photographic documentation of the complex was completed. By the end of 2001, the architectural constructional analysis of the complex had taken place. During this work, and due to the secret passage through the northern wall of Lithe to the crypt, the inside and outside of the masonry lattice of wooden reinforcements was marked and recorded and its contribution to	NTUA Code : 61/095100 Date of Protocol: 02/10/1997 Budget: € 146,735,150 Financier: Greek Ministry of Civilization During 2009 a relevant book was published by NTUA	*Scientific/Project Coordinator*

		the behavior of the monument was evaluated.		
13	1996 -	«Completion of the Survey, Constructional Analysis and Evaluation of the Pathology and the Vulnerability of buildings No.1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 of the Lavrion Technological Cultural Park» The aforementioned buildings of the former unit of the industrial complex were farther studied and analyzed and presented in 1:50 drawings and many details of various scales. Systematic evaluation of their condition and their strengths was carried out with on-site exploratory sections and collection of samples for laboratory testing.	National Technical University of Athens Research Program, with a budget of 22,000,000 GRD, (64,563 EUR)	*Scientific/Project Coordinator*
14	1994 -	"Immediate Rescue Interventions on the Historical Industrial Buildings Complex of Lavrion" The NTUA Research Program, was attended by faculty members, students and external associates.	National Technical University of Athens Research Program, with a budget of 18,000,000	*Scientific/Project Coordinator*

		The product of the research was three volumes of about 700 A3 pages containing: Designs of the architectural survey of approximately 40 buildings on a scale of 1: 100 • Axonometric Analysis of the wooden or metal load bearing structure of each building • Drawings of the most prominent details • Photographic documentation • Identity-Card of the building system, type of the building´s frame, the building´s materials, the pathology and the vulnerability of each building.	GRD, (52,824 EUR)	

Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees				
Ref. Number	**Period**	**Organization**	**Title of Position or Service**	**Key Activities**
1	1992, 1993	**Scientific Committee of the European Center for the Prevention and Prognosis Of Earthquakes.** (ECPPE) Protocol	Member of the Scientific Committee.	Historical Structures under Seismic Risk.

		No. 1334 of 23-9-1992)		
2	1992 - 2000	**"International Decade for Natural Disasters Reduction"** (I.D.N.D.R). UN.-Geneva 1990 - 2000	**Greece First Liaison Officer** UN. Geneva	Natural Disasters in Eastern Mediterranean basin.
3	1989 - until – Nov. 1995 when he was designated as Member of the Greek "Committee for the Implementation of Eurocodes" (Ministry of the Environment, Physical Planning and Public Works / General Secretariat for Development with No D11b / 82 / 10-11-95)	**CEN – Eurocodes Committee**	**Liaison Engineer at the CEN Committee: Eurocode 5 - Timber Structures** (Designation of National Committee liaisons for Eurocodes 5 and 6 Protocol No. D11e / 30328 (November 1989 - ICSD), and after 1989 Member of the Greek **"Committee for the Implementation of Eurocodes"**	Eurocode 5 – Design of Timber Structures.
4	1996	**Technical Chamber of Greece.**	Together with Prof. E. Katsaragakis, he was appointed as the **Committee of Scientists for the translation of the Eurocode EC 5 into the Greek language** (TEE - Management Committee - Session 13 of 7-3-1996).	Observation of the Translation and Preparation of the National Appendix to the Eurocode 5.

5	1993 - 2018	**"Society for the Study of Ancient Greek Technology"**	Founding member of the **"Society for the Study of Ancient Greek Technology"** (EMAET) .and member of the Board of Directors	Founding member and member of the Board of Directors.
6	2000	**Ministry of the Environment. Directory of Urban Design - Department of Traditional Settlements**	Member of the **"Control Committee of the Preserved Monumental and Traditional seismically endangered Structures"** (Decision No. 4356/2119 / 24.2.2000)	Traditional Constructional Systems Structures in Seismic Risk.
7	Avignon. March 20, 2001	**CORPUS EUROMED Heritage Program**	Member of: CORPUS Project Scientific Committee **"Traditional Architecture in the Mediterranean Space"** EUROMED Heritage Program	Traditional Architecture Constructional Analysis and Behavior Assessment.
8	September 2006 to June 2009	**National School Buildings Organization of Greece**	**Chairman of the Technical Committee of OSK-SA** (National School Buildings Organization of Greece)	Developed, antiseismic, bioclimatic and energy-efficient school buildings design using modern building systems.
9	2009	**Technical Chamber of Greece - Directorate of Scientific and Development Activity**	Appointment by Technical Chamber of Greece Decision with no. Rev. 15965 of 09-06-09 as a: **Member of the Working Groups on Writing Notes on Eurocodes Application.** and	Design of Timber Structures Manual (with other 4 cooperators) and

			Member of the Committee for: **"Fire Safety of Historic, Preserved Buildings".**	
10	October 2018 – 31 December 2020	***American Journal of Civil Engineering***.	Editorial board member of ***American Journal of Civil Engineering***.	Review manuscripts.
13	13-16/10/2022	***Society for Research and Promotion of Scientific Restoration of Monuments (ETEPAM). 6th Panhellenic Restoration Conference. October 13 – 16 – Thessaloniki.***	Lecturer	***4th Session: Restorations in Byzantine and Post-Byzantine Period Monuments. P. Touliatos - M. Pelekanos: "The particularities of the dome structure housing the Catholic of the Docheiarion Monastery of Mount Athos".***
11	Sept 25-26, 2023	***Hydra Island, Greece. Conference: "Save Wooden Boats". Historical Archive – Hydra Museum.***	Presentation	***Presentation by P. Touliatos: "Investigation of Critical Constructional Characteristics of the Ancient Kyrenia Ship".***
12	18/01/2023	***University of the Aegean. Participation of Professor P. Touliatou in the "Special Advisory Committee (ASC) on: "Apprenticeship and Vocational Training Program in Naval Woodworking Art".***	Participation	***"Special Advisory Committee (ASC)***

13	2022-2023	***"Architecture PhD Program Coordinator"***	Coordinator	***Frederick University***
14	03/02/2024	***ETC - ICOMOS Department of Epirus. Scientific Conference on Mortars.***	Introductory speech	***P. Touliatos - "The importance of mortars in construction."***
15	01/03/2024	***Polytechnico di Torino. (Construction History Group – CHG) "STRUTTURE NASCOSTE" – "Hidden Structures"***	Lecturer	***P. Touliatos – "Hidden andinvisible fortification structures, against people and nature, in Byzantine Fortified Architecture".***
16	23/04/2024	***Professor P. Touliatos's course in the 6th Semester of the NTUA School of Architecture, (with teleconference): "Architectural Composition and Design of Conventional Structural System Buildings in an Earthquake endangered zone".***	Lecturer	***NTUA School of Architecture***
17	21/05/2024	***Course of Professor P. Touliatos in the 6th Semester of the School of Architects of NTUA, (with***	Lecturer	***NTUA School of Architecture***

		teleconference): "Architecture of Antiseismic Behavior of Historical and Traditional Constructions in the seismic region of South-Eastern Europe".		
18	2023-2024	***Collaboration of the Department of Architecture of Frederick University with the Lanitio Lyceum of Limassol so that students of the last classes of the Lyceum can practice and be properly prepared for Higher Studies in the fields of Engineering Sciences.***	Lecturer	***Throughout the winter semester 2023 and the spring semester 2024 the students: A.- Attended lectures related to the principles of Levers and Pulleys as scientific inventions of force multiplication in Engineering applications. B.- With the collaboration of the students of the First Class of the Department of Architecture of Frederick University, they designed applications of pulleys, Archimedes Pulleys, and levers, in the form of a Catapult. C.- They built pulley systems, in life size, and catapult systems, in 1/10 scale. D.- At the Lyceum, with the presence of Architecture students, they demonstrated the operation of both the pulleys, lifting loads, and the catapults, competing for the longest launch distance.***

Awards / International Recognition			
Ref. Number	**Date**	**Title**	**Awarded by:**
1	25 January 1992	Honorary mention for the offer of the Greek architect P. Touliatos by the President of the Republic of Cyprus Mr. G. Vassiliou during the ceremony of Honorary Distinction Award on 25 January 1992.	The President of the Republic of Cyprus Mr. G. Vassiliou.

2	October 1995.	Acknowledgement by the: «European Network for training and educación for the forest, paper and wood industries» of P. Touliatos contribution in the preparation and formulation of technical materials. - October 1995.	«European Network for training and educación for the forest, paper and wood industries»
3	November 29-2000	Certifícate Of Appreciation, Lions International November 29-2000	Lions International
4	December 2008	Ministry of National Education and Religious Affairs of Greece PUBLIC LIBRARY OF LEFKADA December 2008 Offer identification for the study and salvage of Lefkas Anti-seismic Historic Constructional System. (Later this System was nominated in Luxembourg as the first Anti-seismic Historic Constructional System of Europe)	Ministry of National Education and Religious Affairs of Greece PUBLIC LIBRARY OF LEFKADA
5	01/07/2008	NTUA /Rector No. Proc. 20274 01/07/2008 Official recognition of the National Technical University of Athens - Polytechnic (NTUA) for the contribution of Prof. Touliatos: **"in the promotion of its educational and research excellence and its great social contribution".**	NTUA /Rector Protocol No. 20274 01/07/2008
6	29/08/2008	Honorary event of the NTUA for the **"Completion of the first phase of offering at the institution of Professor P. Touliatos"** (ie as a Full Professor).	National Technical University of Athens (NTUA)

7	Athens 11-06-2009	Vice Rector of the National Technical University of Athens Professor M. Polyzos Athens 11-06-2009 Thanks for the writing of the book: **"Holy Monastery of Docheiarion of Mount Athos - The architecture of the Katholikon and the Tower"** issued during the commemorations for 170 years of the NTUA.	Vice Rector of the National Technical University of Athens Professor M. Polyzos
8	29-05-2009	NTUA – Senate Protocol No.16132/29-05-2009 The Senate of the NTUA (Extraordinary Meeting of the Senate of the Senate 29-05-2009) unanimously "awarded the title of Emeritus Professor (to Prof. P. Touliatos), expressing warm thanks for the contribution to the NTUA to date".	Senate of the National Technical University of Athens
9		**BIENNALE of ARCHITECTURAL REHABILITATION 2018** The Biennale of Architecture and Urban Conservation and Rehabilitation , organized every two years by CICOP Italia (International Center for the Restoration of Heritage Architecture), took place in Nicosia, BRAU 4. This year's Conference was organized by ICOMOS Cyprus as a local organizer and has as theme the "Hidden Cultural Heritage. In the context of the Conference, CICOP Italy awarded international personalities and	The President of the National Technical Chamber of Cyprus

		organizations for their contribution to the Conservation and Restoration of Cultural Heritage. **Among the winners was the President of the Department of Architecture of the University of Frederick Professor Panagiotis Touliatos, who received an honorary plaque from ETEK President Stelios Ahniotis at the opening ceremony of the Conference.**	
10	2024	Proclamation of Professor P. Touliatos and Professor K. Palyvou as: Honorary Members of ICOMOS of Cyprus.	ICOMOS, CYPRUS
11	Oct 4, 2023	Nomination of Professor Panagiotis Touliatos as an honorary member of ETEK by the President of ETEK Mr. Konstantinos Konstantis.	ETEK, CYPRUS

Other Achievements			
Ref. Number	**Date**	**Title**	**Key Activities:**
1	2009 - 2018	Establishment of: **"Architectural Technology Research Centre"**	**On one hand:** Establishment of a Research Unit for documentation, restoration and conservation of historic buildings and monuments. Development of the relevant Constructional Analysis and of the Diagnostic the Pathology and Vulnerability Methods. Research concerning the development of the repair, strengthening and restoration methods of non-conventional buildings. Support and enhancement of the architectural heritage of Cyprus. **On the other hand :**

			Research concerning developed, antiseismic, bioclimatic and energy-efficient buildings design using modern building systems.
2	2018 - 2019	**"Constructional Analysis of the Architectural Heritage of Cyprus."** (provisional title)	Publication of a Volume that contains collection, description and analysis of unique and valuable samples of Historical Cypriot Architecture, as has been studied by our students with the collaboration, besides the University, of the relevant authorities.
3	2016 -2017 2017-2018 2018-2019	**Educational - research programs with high school students in Cyprus.**	2016 -2017 Students of the S. Peter and Paul high school of Limassol studied, in cooperation of Frederick University staff and students, the history and the structure of the Kyrenia ancient vessel and constructed two exact models which, sailed successfully. 2017-2018 Students of the S. Peter and Paul high school of Limassol studied, in cooperation of Frederick University staff and students, designed and constructed, in full scale, a timber – framed pedestrian bridge. 2018-2019 Students of the Omodos high school studied, in cooperation of Frederick University staff and students, are designing a prestressed membrane roofing in their yard.
4	2014 - 2015	**Exhibition of Ancient Greek Technology**	The Exhibition of Ancient Greek Technology organized by the Department of Architecture of Frederick University, in cooperation of the "Association For the Study of Ancient Greek Technology" (EMAET) of Greece, inside the Departments Buildings lasted for more than six months and was visited by more than 6000 elementary and high school students.
