# **CURRICULUM VITAE**

### Personal Data

Surname: Theoulakis Name: Panagiotis Date of Birth: 3 October 1959 Place of Birth: Rhodes, Greece Home Address: Akakion 22, 15233, Chalandri, Athens, Greece Work Address: Ag, Spiridonos street, 12210, Athens, Greece

## Education

- **Diploma** Mining and Metallurgical Engineering, Department of Mining and Metallurgical Engineering, National Technical University of Athens, Athens Greece. Received: February 1983.
- **Ph.D** Department of Chemical Engineering, NTU-A, Athens, Greece. Ph.D Thesis: "Deterioration processes of the building material of the Medieval City of Rhodes and search for methods/means of protection".

# **Teaching Experience**

From 2010 Professor at the Department of Conservation of Antiquities and Work of Arts (current position) of the University of West Attica (former Technological Education Institution of Athens)

From 2003 Associate Professor at the Technological Education Institution of Athens, Department of Conservation of Antiquities and Work of Arts.

From 1994 to 2002 Scientific Collaborator at the Technological Education Institution of Athens, Department of Conservation of Antiquities and Work of Arts.

From 1984, as a postgraduate student and research collaborator, he has supervised many works for Diploma Thesis at the National Technical University of Athens, Department of Chemical Engineering. He has also participated in the teaching of the laboratory courses.

## Work Experience

From 2006 to 2010 he was the Head of the Department of Conservation of Antiquities and Work of Arts of the Technological Education Institution of Athens.

From 1999 to 2003 he worked for the Medieval Town Restoration Project Inspection Committee Greek Ministry of Culture.

From 1983 to 1999 he worked for the Committee for the Restoration of the Temple of Apollo Epikourios, Greek Ministry of Culture.

From 1983 to 1990 he worked also at the Stone Conservation Center of the Greek Ministry of Culture.

#### A list of some works for the conservation of cultural heritage

1. Innovation technologies on the conservation of the materials of monuments, EEC-COMETT Program 1991-1993, Budget: 240.000 ECU. Coordinator/ Contractor: NTU-A.

**2.** Study of the weathering and the proper conservation - protection intervention concerning the Venetian Fortress of Corfu, 1990-1992, Budget: 50.000 ECU, Ministry of Culture and Local Authorities.

**3.** Study of the weathering and the proper conservation - protection intervention concerning the Medieval City of Rhodes, 1988-1991, Budget 11.660 ECU, Ministry of Culture and Local Authorities.

**4.** Study of the weathering and the proper conservation - protection intervention for the Venetian Fortress of Rethymno, RECITE Programm 1994, - a phase, Budget: 37.037 ECU, 1994-5, - â phase, Budget: 277.800 ECU.

**5.** F. Zezza, M. Koui, A. Moropoulou, P. Theoulakis, Research Programm of CUM (Community of Mediterannean Universities) concerning weathering mapping of monuments, Scientific Responsible/Project Manager: Prof. F. Zezza, Bari, 1993 - 3.000 U.S.D. Contract with As. Prof. NTU-A M. Koui

- 2004 2006 Archimedes I. "Study of the effects of airborne particles deposition on architectural surfaces" Technological Educational Institute of Athens, Department of Conservation of Antiquities and Works of Art. Programme co-funded by the European Union. Scientific coordinator Dr Panagiotis Theoulakis
- 2006 *Laser technology in the conservation of sculptutre (LASTOR)* Technological Educational Institute of Athens, Department of Conservation of Antiquities and Works of Art. Programme co-funded by the European Union. Scientific coordinator Dr Panagiotis Theoulakis

2005 – 2007 *INTERREG IIIC – NOE* "Strategic Intervention for the restoration of the damages caused by the 1999 earthquake at the Byzantine church of Aghios Petros in Eastern Attica, Greece"

Technological Educational Institute of Athens, Department of Conservation of Antiquities and Works of Art. Programme co-funded by the European Union.

Scientific coordinator Dr Panagiotis Theoulakis

2007 – 2008 Greek Ministry of Culture. "Study for the cleaning of stone fragments from the monument of Octavian Augustus in Nicopolis, Greece" Technological Educational Institute of Athens, Department of Conservation of Antiquities and Works of Art. Programme funded by the Greek Ministry of Culture. Scientific coordinator Dr Panagiotis Theoulakis

Aristotle University of Thessaloniki. Excavations of Dispilio. "Study for the consolidation of architectural clay fragments from the Neolithic settlement of Dispilio, Greece".
Technological Educational Institute of Athens, Department of Conservation of Antiquities and Works of Art. Programme funded by the Aristotle University of Thessaloniki.
Scientific coordinator Dr Panagiotis Theoulakis

2009 Greek Ministry of Culture. Committee for the Conservation of the Acropolis Monuments. "Study and design of conervation mortars". Technological Educational Institute of Athens, Department of Conservation of Antiquities and Works of Art. Programme funded by the Greek Ministry of Culture. Scientific coordinator Dr Panagiotis Theoulakis

"Study and characterisation of the original mortars and proposal for conservation mortars of the monastery of Poretso in Peloponnese".

Technological Educational Institute of Athens, Department of Conservation of Antiquities and Works of Art. Programme funded by the Greek Ministry of Culture.

Scientific coordinator Dr Panagiotis Theoulakis

Municipality of Athens "Study for the cleaning of sculptures of the Cultural Centre of the Municipality of Athens".

Technological Educational Institute of Athens, Department of Conservation of Antiquities and Works of Art. Programme funded by the Greek Ministry of Culture.

Scientific coordinator Dr Panagiotis Theoulakis

2008-2010 "Curriculum update in areas with intense interdisciplinary features" Technological Educational Institute of Athens, Department of Conservation of Antiquities and Works of Art. Programme funded by the Technological Educational Institute of Athens. Scientific coordinator Dr Panagiotis Theoulakis

- 2012-2015 Archimedes III. "Consolidation and weathering inhibition of building materials with emphasis on clay-bearing stones used in architectural monuments"
   Technological Educational Institute of Athens, Department of Conservation of Antiquities and Works of Art. Programme co-funded by the European Union. Scientific coordinator Dr Panagiotis Theoulakis
- 2012-2015 Archimedes III. "Model study for the examination of the pathology and conservation of building and decorative elements of Byzantine monuments"
   Technological Educational Institute of Athens, Department of Conservation of Antiquities and Works of Art. Programme co-funded by the European Union.
   Scientific coordinator Dr Vasilios Lambropoulos
- 2012-2015 Thalis. "Saving wooden shipwrecks in the Mediterranean marine ecosystem: Research, development and application of innovative methods of in situ protection" Technological Educational Institute of Athens, Department of Conservation of Antiquities and Works of Art. Programme co-funded by the European Union. Scientific coordinator Dr Anastasia Pournou
- 2012-2015 Thalis. "The Apollo Sanctuary and the Late Roman Settlement in Halasarna (Kos). The History of an Ancient Sanctuary, its Decline and its Final Transformation into a Late Roman/Early Christian Settlement" University of Athens, Department of History and Archaeology. Programme co-funded by the European Union. Scientific coordinator Dr Georgia Kokkorou-Alevras
- 2012-2015 Thalis. "Sustainability and compatibility of advanced materials and technologies for the protection of cultural heritage monuments: Development of investigation criteria and methodologies" National Technical University of Athens, Department of Chemical Engineering. Programme co-funded by the European Union. Scientific coordinator Dr Antonia Moropoulou
- 2017 Study fro the stabilisation of Chakourgeion D at the south slope of the Acropolis hill. Scientific coordinator Dr Panagiotis Theoulakis
- 2017-2018 Conservation, Protection and Rehabilitation of the monuments of Akrotiri, Thera.

Scientific coordinator for the Architectural Conservation Laboratory contribution: Dr Panagiotis Theoulakis

## **Research Experience**

Professor Theoulakis' main scientific and research interest is the deterioration processes of materials in the monuments of cultural heritage, considered as the result of interaction between the environmental parameters and materials' properties. He is also interested in the assessment and development of innovative mean and methods for documentation and evaluation of decay forms and for conservation as well.

## Scientific Journals

- 1. Iliopoulou Georgoudaki, J., Pantazidou, A., Theoulakis, P., "An assessment of cleaning photoautotrophic microflora: the case of "perama" cave, Ioannina, Greece", in *Memoires de Biospeleologie*, Tome **XX**, 1993, pp. 117-120.
- Moropoulou, A., Theoulakis, P., Dogas, Th., "The behaviour of fluoropolymers and silicon resins as water repellents under salt decay conditions in combination with consolidation treatments on highly porous stone", J. Science and Technology for Cultural Heritage, 3 (1994) pp. 113-122.
- 3. Moropoulou, A., Theoulakis, P., Bisbikou, K., "Methodological contribution to the characterization and assessment of ceramic technology: The case of the bricks of the Corfu Venetian Fortress", *Revue des Archeologues et Historiens d'Art de Louvain*, **27** (1994) pp. 129-143.
- 4. Moropoulou, A., Theoulakis, P., Chrysophakis, T., "Correlation between stone weathering and environmental factors in marine atmosphere", *J. Atmospheric Environment*, **29**, No 8 (1995) pp.895-903.
- 5. Moropoulou, A., Koui, M., Theoulakis, P., Kourteli, Ch., Zezza, F., "Digital Image Processing for the Environmental Impact Assessment on Architectural Surfaces", J. Environmental Chemistry and Technology, 1 (1995) pp. 23-32.
- 6. Theoulakis, P., Moropoulou, A., "Microstructural and mechanical parameters determining the susceptibility of porous building stones to salt decay", *J. Construction and Building Materials*, **11**, No. 1 (1997) pp. 65-71.
- 7. Moropoulou, A., Tsiourva, Th., Theoulakis, P., Christaras, B., Koui., M., "Non destructive evalution of pilot scale treatments for porous stone consolidation in the Medieval City of Rhodes", *PACT, J. European Study Group on Physical, Chemical, Biological and Mathematical Techniques Applied to Archaeology*, **56** (1998) pp. 259-278.
- 8. Theoulakis, P., Moropoulou, A., "Salt crystal growth as weathering mechanism of porous stone on historic masonry", *J. Porous Materials*, **6** (1999) pp. 345-358.
- 9. A. Moropoulou, P. Theoulakis, Th. Tsiourva, G. Haralampopoulos, "Compatibility evaluation of consolidation treatments in real monument scale", *PACT, J. European Study Group on Physical, Chemical, Biological and Mathematical Techniques Applied to Archaeology*, **59** (2000), pp. 209-230.

- 10. Avdelidis, N.P., Moropoulou, A., Theoulakis, P., "Detection of water deposits and movement in porous materials by infrared imaging", *Infrared Physics & Technology*, in press.
- 11. Moropoulou, A., Koui., M., Kourteli, C., Theoulakis, P., Avdelidis, N.P., "Integrated methodology for measuring and monitoring salt decay in the medieval city of Rhodes porous stone", *Mediterranean Archaeology and Archaeometry*, Vol. 1, No1, (2001), pp. 57-68.
- 12. Avdelidis, N.P., Moropoulou, A., <u>Theoulakis</u>, P., "Detection of water deposits and movement in porous materials by infrared imaging", *Infrared Physics & Technology*, **44** (2003), pp. 183-190.
- 13. Karatasios, I., Kilikoglou, V., Colston, B., <u>Theoulakis</u>, P., Watt, D. (2007). "Setting process of lime-based conservation mortars with barium hydroxide", *Cement and Concrete Research*, **37** (6), pp. 886-893.
- 14. Karatasios, I., Kilikoglou, V., Colston, B., <u>Theoulakis</u>, P., Watt, D. (2008). "Sulphate resistance of lime-based barium mortars", *Cement and Concrete Composites*, **30** (9),815-821.
- 15. Stefanis N.A., <u>Theoulakis</u> P., Pilinis C., (2009). "Dry deposition effect of marine aerosol to the building stone of the medieval city of Rhodes", *Building and Environment*, **44**, 260-270.
- 16. Karatasios, I., Theoulakis, P. Kalagri, A., Sapalidis, A., kilikoglou, V. (2009). "Evaluation of consolidation treatments of marly limestone used in archaeological monuments", *Construction and Building Materials*, **23** (8), 2803-2812.
- 17. Stefanis, A., <u>Theoulakis</u>, P. 2016. Conservation of Building and Decorative Elements of Ottoman Architecture in the Medieval City of Rhodes. *Journal of Civil Engineering and Architecture*, 10, 1416-1421.

#### Materials Issues in Art and Archaeology

1. Moropoulou, A., Theoulakis, P., Tsiourva, T., Kourteli, C., Labropoulos, K., "Salt and humidity impact on porous stone masonries in marine environment", *Materials Issues in Art and Archaeology IV*, Vol. 352, ed. J.R. Druzik, P.B. Vandiver, Publ. Materials Research Society, Pittsburgh (1995) pp. 893-906.

### RILEM

- P. Theoulakis, "Microclimatic monitoring at the Temple of Apollo Epikourios at Bassai, Greece", in "Conservation of Stone and Other Materials", edited by M-J.Thiel UNESCO-RILEM Publ. E & FN SPON, Chapman & Hall, Paris, 1993, Vol. 2, pp. 808-816.
- Moropoulou, A., Biscontin, G., Theoulakis, P., Bisbikou, K., Theodoraki, A., Chondros, N., Zendri, E., Bakolas, A., "Study of mortars in the Medieval City of Rhodes", *Conservation of Stone and Other Materials*, ed. M.J. Thiel, RILEM-UNESCO, Publ. E&FN SPON, Chapman & Hall, Paris, Vol. 1 (1993) pp. 394-401.
- Moropoulou, A., Biscontin, G., Theoulakis, P., Bisbikou, K., Zendri, E., Bakolas, A., Maravelaki, P., "Behaviour of the bricks of the Corfu Venetian fortress", *Conservation of Stone and Other Materials*, ed. M.J. Thiel, RILEM-UNESCO, Publ. E&FN SPON, Chapman & Hall, Paris, Vol. 1 (1993) pp. 402-410.
- Moropoulou, A., Theoulakis, P., Dellas, K., Dellas, G., Tzakou, A., "Environmental management of historic complexes or cities: A new conservation strategy", *Conservation of Stone and Other Materials*, ed. M.J. Thiel, RILEM-UNESCO, Publ. E&FN SPON, Chapman & Hall, Paris, Vol. 2 (1993) pp. 845-852.

### SDEE

 Moropoulou, A., Christaras, B., Lavas, G., Penelis, G., Zias, N., Biscontin, G., Kollias, E., Paisios, A., Theoulakis, P., Bisbikou, K., Bakolas, A., Theodoraki, A., "Weathering phenomena on the Hagia Sofia Basilica Konstantinople", *Soil Dynamics and Earthquake Engineering VI*, ed. A.S. Cakmak and C.A. Brebbia, Publ. Computational Mechanics Publications, Southampton Boston, Elsevier Applied Science, London NY (1993) pp. 923-942.

### STREMA

- 1. Moropoulou, A., Christaras, B., Lavas, G., Penelis, G., Zias, N., Biscontin, G., Kollias, E., Paisios, A., Theoulakis, P., Bisbikou, A., Bakolas, A., Theodoraki, A., "Weathering phenomena on the Hagia Sophia Basilica Konstantinople", *Structural Repair and Maintenance of Historical Buildings III*, ed. C.A. Brebbia, R.J.B. Frewer, Computational Mechanics Publications, Southampton Boston (1993) pp. 47-66.
- Christaras, B., Moropoulou, A., Dimitriou, A., Diamantopoulou, M., Bisbikou, K., Theoulakis, P., "Stability and materials weathering conditions at the Symonos Petra monastery of Mount. Athos, Greece. Preliminary approach", *Structural Repair and Maintenance of Historical Buildings III*, ed. C.A. Brebbia, R.J.B. Frewer, Computational Mechanics Publications, Southampton Boston (1993) pp. 545-558.

### Scienza e Beni Culturali

- 1. Moropoulou, A., Biscontin, G., Bisbikou, K., Bakolas, A., Theoulakis, P., Theodoraki, A., Tsiourva, T., Zendri, E., "Opus caementicium' mortars in a polluted and marine atmosphere : behaviour patterns distinct to cement and lime mortars", *Scienza e Beni Culturali IX*, ed. G. Biscontin, D. Mietto, Publ. Libreria Progetto Editore Padova (1993) pp. 357-371.
- Moropoulou, A., Biscontin, G., Bakolas, A., Bisbikou, K., Theoulakis, P., Theodoraki, A., Zendri, E., "Physico-chemical investigation on characterisation and behaviour of rubble masonry mortars 'Calcestruzzo da Sacco Murario'', *Scienza e Beni Culturali IX*, ed. G. Biscontin, D. Mietto, Publ. Libreria Progetto Editore Padova (1993) pp. 373-387.
- Moropoulou, A., Biscontin, G., Bisbikou, K., Bakolas, A., Theoulakis, P., Theodoraki, A., Tsiourva, T., "Physico-chemical study of adhesion mechanisms among binding material and brick fragments in 'Coccio Pesto'", *Scienza e Beni Culturali IX*, ed. G. Biscontin, D. Mietto, Publ. Libreria Progetto Editore Padova (1993) pp. 415-429.
- 4. Moropoulou, A., Haralampopoulos, G., Tsiourva, Th., Theoulakis, P., Koui, M., "Long term performance evaluation of consolidation treatments in situ", *Scienza e Beni Culturali IX*, ed. G. Biscontin, G. Driussi, Publ. Arcadia Ricerche S.r.l. (2000), pp. 239-255.

### SPIE

#### Thermosense

1. Moropoulou, A., Avdelidis, N.P., Theoulakis, P., Koui, M., "Thermography as an evaluation tool for studying the movement of water through various porous materials; capillary rise and evaporation", *Thermosense XXII*, ed. A.E. Rozlosnik, R. Dinwiddie, Publ. SPIE, (2001).

#### Archaelogical Sciences (Oxbow Monograph 64)

1. A. Pantazidou, M. Roussomoustakaki and P. Theoulakis, "The Temple of Apollo Epikourios (Greece); Consequences of the Protection Work on its Microflora", in *Archaeological* 

Sciences, Vol. 1995, ed. A. Sinclair, E. Slater, J. Gowlett, Publ. Oxbow Books, Oxbow Monograph 64 (1997), pp.326-330.

#### **International Conferences**

- 1. N. Beloyannis and P. Theoulakis, "Stone Deterioration at the Temple of Apollo Epikourios (Bassai): A General Approach to the Problem", Science in Archaelogy, ed. R.E. Jones and H.W. Catling, British School at Athens, 1986, pp. 11-15.
- Theoulakis, P., Moropoulou, A., "Mechanism of deterioration of sandstone of Medieval City and the Castle of Rhodes", in Proc. VI<sup>th</sup> International Congress on Deterioration and Conservation of Stone, ed. J. Ciabach, Publ. Nicholas Copernicus University, Press Department, Torun, (1988), pp. 86-96.
- N. Beloyannis, P. Theoulakis, L. Haralambides, Stone Deterioration at the Temple of Apollo Epicurios at Bassai (Peloponnese); Hydrophobation tests, Proc. "VI International Congress on Deterioration and Conservation of Stone", Torun, Sept. 1988, pp. 75-85.
- 4. P. Theoulakis, K. Kouzeli, V. Kilicoglou, "Provenance of the building material of the Temple of Apollo Epicurios at Bassai, Greece", proceedings of International Congress "The Engineering Geology of Ancient Works, Monuments and Historical Sites: Preservation and Protection", Athens, Sept.1988, pp. 661-669.
- N. Beloyannis, P. Theoulakis, L. Haralambides, "Causes and mechanism of stone alteration at the Temple of Apollo Epicurios at Bassai, Greece", Proc. International Symposium "The Engineering Geology of Ancient Works, Monuments and Historical Sites: Preservation and Protection", Athens, Sept. 1988, p. 763-770.
- P. Theoulakis, N. Beloyannis, "Stone deterioration problems caused by previous restorations at the citadel of Lindos (Rhodes)", Science, Technology and European Cultural Heritage, ed. N.S. Baer, C. Sabbioni, A.I. Sors, Publ. Butterworth – Heinemann, Bologna, Italy, June 1989, pp.
- N. Beloyiannis and P. Theoulakis, "The Aluminosilicate Veins in the Marble of Acropolis Monuments", in "Study for the Restoration of the Parthenon", Ministry of Culture, Committee for the Preservation of the Acropolis Monuments, Athens 1989, Vol. 2a, pp. 189-191. Also presented and published in the proceedings of the 3<sup>rd</sup> International Meeting for the Restoration of the Acropolis Monuments, Athens, 1989, p. 90.
- Moropoulou, A., Theoulakis, P., "Conditions causing destructive NaCl crystallization into the porous sandstone building material of the Medieval City of Rhodes", in Proc. 2<sup>nd</sup> International Symposium on the Conservation of Monuments in the Mediterranean Basin, ed. D. Decrouez, J. Chamay & F. Zezza, Publ. Museum d' Histoire Naturelle & Musee d'Art et d'Histoire, Geneva, Vol. 3 (1991), pp. 493-499.
- Moropoulou, A., Theoulakis, P., Kokkinos, Ch., Papasotiriou, D., Daflos, E., "The performance of some inorganic consolidants on the calcareous sandstone of the Medieval City of Rhodes", in Proc. 7<sup>th</sup> International Congress on Deterioration and Conservation of Stone, ed. J.D. Rodrigues, F. Henriques and F. Telmo Jeremias, Publ. Laboratorio Nacional de Engenharia Civil, Lisbon (1992), pp.1231-1242.
- P. Theoulakis, "Stone Decay and Conservation of the Temple of Apollo Epikourios", in Proceedings of the Eurocare - Euromarble EU496, organised by Forth - Institute of Chemical Engineering & High Temperature Chemical Processes, Patras, 1996, pp. 94-100.
- 11. Theoulakis, P., Moropoulou, A., "Porous stone decay by salt crystallization The case of the building material of the Medieval City of Rhodes", in Proc. 4<sup>th</sup> International Symposium on the Conservation of Monuments in the Mediterranean Basin, ed. A. Moropoulou, F. Zezza, E.

Kollias & I. Papachristodoulou, Publ. Technical Chamber of Greece, Rhodes, Vol. 4 (1997), pp. 647-673.

- 12. A. Pantazidou and P. Theoulakis, "Cyanophytes And Associated Flora At The Neoclassical Palace Of Sts George And Michael In Corfu (Greece). Aspects Of Cleaning Procedures", in Proceedings of the IVth International Symposium on the Conservation of Monuments in the Mediterranean Basin, Rhodes, 1997, pp. 355-367.
- 13. Moropoulou, A., Koui, M., Kourteli, Ch., Papasotiriou, D., Theoulakis, P., Tsiourva, Th., Achilleopoulos, N., Karakantas, Ch., Romanos, A., Tokatlidou, K., Koliadis, Th., Zarifis, N., Van Grieken, R., Delalieux, F., Silva, B., Molina, E., Vicente, M.A., Vicente, S., Macri, F., Zezza, F., "Techniques and methodology for the preservation and environmental management of historic complexes The case of the Medieval City of Rhodes", in Proc. 4<sup>th</sup> International Symposium on the Conservation of Monuments in the Mediterranean Basin, ed. A. Moropoulou, F. Zezza, E. Kollias & I. Papachristodoulou, Publ. Technical Chamber of Greece, Rhodes, Vol. 4 (1997), pp. 603-634.
- 14. P. Theoulakis, "The role of education and research in the conservation of the islands cultural heritage as requirement for the sustainable development", proc. of international congress Sustainable Development in the Islands: and the Roles of Research and Higher Education, University of the Aegean, Rhodes Greece, 30 April – 4 May 1998, in press.
- 15. Moropoulou, A., Tzakou, A., Theoulakis, P., "The conservation and rehabilitation of architectural heritages - A new vehicle for cultural tourism sustaining islands development", in Proc. Int. Conf. "Islands 2000" The World of Islands: What development on the eve of the year 2000?, ed. P.G. D'Ayala, C. Cavallaro, A. Moropoulou, Publ. NTUA - UNESCO -INSULA, Giardini Naxos, 1992, (1999) pp. 181-192.
- P. Theoulakis, A. Tzamalis, "Effectiveness of Surface Treatments for Sedimentary Limestone in Greece", in proc. of IX International Congress on Deterioration and Conservation of Stone, ed. V. Fassina, Publ. Elsevier, Venice, June 19-24, 2000, Vol. 2 pp. 493-501.
- P. Theoulakis, M. Bardanis, "The Stone of Piraeus at the Monuments of the Acropolis of Athens", in proc. of IX International Congress on Deterioration and Conservation of Stone, ed. V. Fassina, Publ. Elsevier, Venice, June 19-24, 2000, Vol. 1, pp. 255-263.
- Moropoulou, A., Koui, M., Theoulakis, P., Bakolas, A., Roumpopoulos, K., Michailidis, P., Van Grieken, R., Cardell-Fernandez, "Microstructural criteria to evaluate stone susceptibility to sea-salt decay on Mediterranean and Atlantic coast monuments", in Proc. of 5<sup>th</sup> Int. Symp. on the Conservation of Monuments in the Mediterranean basin, Seville, (2000), p. 316.
- Karatasios I., Theoulakis P., Kylikoglou V., Colston B., Watt D., Lampropoulos V. (2002). "Analytical and Microscopic Techniques for the Study of Mortars from the Floor Mosaics of Theva, Greece", in proceedings: *VIII Conference of the International Committee for the Conservation of Mosaics*, Thessaloniki 29 Oct. -5 Nov., pp. 209-222.
- Theoulakis P., Karatasios I., Stefanis A., Kilikoglou V., (2003). 'Environmental Monitoring and Deterioration Phenomena of Historic Buildings: The Case of Retzep Pasha Mosque in Rhodes, Greece'. In: Proceedings of the International Conference on Environmental Monitoring of our Cultural Heritage – Sustainable Conservation Solutions, 13 – 14 November, Edinburgh, UK. Chapter 9, pp 1-34.
- P. Theoulakis, M. Giannoulaki, S. Poulimenea, I. Karatasios, V. Kilikoglou, P. Themelis, (2004). 'Deterioration Layers and Crust Formations on Two Hellenistic Excavated Marble Sculptures. Analytical and Theoretical Approach'. In: Proceedings of the 10<sup>th</sup> International Congress on Deterioration and Conservation of Stone "STONE 2004", Stockholm 27 June 2 July, pp. 43-50.

- 22. I. Papayianni, P. Theoulakis, M. Stefanidou, (2004). 'The mechanical and Physicochemical Characteristics of Stone Masonries of Medieval Monuments of Rhodes'. In: Proceedings of the 10<sup>th</sup> International Congress on Deterioration and Conservation of Stone "STONE 2004", Stockholm 27 June – 2 July, pp. 643-649.
- 23. P. Theoulakis, I. Karatasios, Ag. Sotiropoulos, V. Kilikoglou, (2004). 'The Selection of Stone for Historic Buildings Repair. The Use of Cypriot Stone in the Medieval City of Rhodes'. In: Proceedings of the 6<sup>th</sup> International Symposium on the Conservation of Monuments in the Mediterranean Basin, Lisbon, 7 - 10 April, pp. 352-360.
- Stefanis A., Theoulakis P. and Pilinis C. (2005). "The decay effects of sea-salt aerosol on the surface of historic buildings". In 9th International Conference on Environmental Science and Technology. Rhodes, September 1-3, 2005
- Stefanis N.A., Karatasios I., Kliafa M., Theoulakis P., Kilikoglou V., Pilinis C. (2007). *Monitoring of the deposition of airborne particulate matter on treated stone surfaces*', in: Conservation Science 2007 Conference, Milan, 10-11 May
- 26. Karatasios I., Kylikoglou V, Theoulakis P., Colston B., Watt D. (2007). 'A new approach in conservation mortars designed for urban environment', in: Conservation Science 2007 Conference, Milan, 10-11 May
- 27. N.A. Stefanis, P. Theoulakis, C. Pilinis. Weathering action of marine aerosol at the monuments of the medieval city of Rhodes (2008). European Aerosol Conference, 14-19 August 2008, Thessaloniki, Greece
- Panagiotis Theoulakis, Ioannis Karatasios, Nikolaos-Alexios Stefanis. (2008). Performance criteria and evaluation parameters for the consolidation of stone. International Symposium Eu-ARTECH – Stone consolidation in cultural heritage – research and practice, Lisbon 6-7 May 2008.
- 29. Panagiotis Theoulakis, Nikolaos-Alexis Stefanis, Ioannis Karatasios, Vassilis Kilikoglou, Christodoulos Pilinis. (2008). Performance evaluation of surface coatings against the degradation of stone monuments caused by the deposition of airborne particulate matter. Stone 2008, Nicolaus Copernicus University, 15-20 September 2008, Torun.
- Panagiotis Theoulakis, Ioannis Karatasios, Nikolaos-Alexis Stefanis, Giorgos Gerogiannis. (2008). Weathering patterns on excavated marble sculptures: Assessing the values and taking conservation decisions. Stone 2008, Nicolaus Copernicus University, 15-20 September 2008, Torun.
- Ioannis Karatasios, Vassilis Kilikoglou, Panagiotis Theoulakis (2008). Salt resistance of lime-based conservation mortars containing barium hydroxide. Stone 2008, Nicolaus Copernicus University, 15-20 September 2008, Torun.
- 32. Stefanis, N.A., Chatzi, K., Zioga, K., Theoulakis, P. 2010. Study for the in situ preservation of the clay architectural elements from the excavation of the Neolithic settlement of Dispilio, Greece. In: 8<sup>th</sup> International Symposium on the Conservation of Monuments in the Mediterranean Basin: Monument Damage Hazards and Rehabilitation Technologies, 31 May 2 June 2010, Patras, Greece.
- 33. Stefanis, N.A., and Theoulakis, P. 2010. Design of conservation mortars for the restoration of the Piraeus stone at the monuments of the Acropolis of Athens. In: 2<sup>nd</sup> Historic Mortar Conference, 22-24 September 2010, Prague
- 34. Stefanis, N.A., Theoulakis, P. 2012. Crust formation processes on archaeological marble, conservation methodology and treatment evaluation. In: 12th International congress on deterioration and conservation of stone. New York, USA, 22-26 September 2012. Columbia University.
- 35. Stefanis. N.A., Theoulakis, P. 2013. Evaluation of consolidation treatments of archaeological clay with nano-lime. In: 10<sup>th</sup> International Conference on Nanosciences and Nanotechnlogies NN13, Thessaloniki, 9-12 July 2013.

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