

Curriculum Vitae



Personal information

First name(s) / Surname(s) **Xenofon Spiliotis**
Address 56 / Karaiskaki, 41222 Larissa (Greece)
Telephone(s) +302410684330, +302410252427, Mobile +306948249724 | E-mail(s) spil@teilar.gr
Nationality Greek
Date of birth 13 March 1956
Gender Male

Work experience

Dates	81 – 83
Occupation or position held	College / university teaching professional
Main activities and responsibilities	Teaching Laboratory Assistant
Name and address of employer	UMIST, Manchester (United Kingdom)
Type of business or sector	Education
Dates	1986 – 1993
Occupation or position held	Teaching professional
Main activities and responsibilities	Teaching on the subjects of Chemistry, Chemical Technology and Materials Science
Name and address of employer	Technological & Educational Institute of Larissa, Larissa (Greece)
Type of business or sector	Education
Dates	March 1987 - April 1988
Occupation or position held	Technical Advisor
Main activities and responsibilities	Propane Bottling
Name and address of employer	Hasiotis Mandalis Inc., Larissa (Greece)
Type of business or sector	Gas
Dates	1989 – 1989
Occupation or position held	Technical Director
Main activities and responsibilities	Metallic Constructions for automated storage systems
Name and address of employer	Linellas Ltd, Larissa (Greece)
Type of business or sector	Construction
Dates	1993 - 2002
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching on topics of Chemical Technology, Materials Science, Building Materials, Chemistry
Name and address of employer	Technological & Educational Institute of Larissa, Larissa (Greece)
Type of business or sector	Education
Dates	1993 - 1997
Occupation or position held	Member of Board
Main activities and responsibilities	Management
Name and address of employer	EBETAM S.A., Volos (Greece)
Type of business or sector	Scientific Services for Quality Control on Materials

Dates	1995 - 1997
Occupation or position held	Vice President of Board
Main activities and responsibilities	Management
Name and address of employer	Gas Distribution Company of Thessaly, Larissa (Greece)
Type of business or sector	Natural gas Distribution
Dates	1999 - 1999
Occupation or position held	Member of Board
Main activities and responsibilities	Management
Name and address of employer	Municipal Gas Company of Larissa, Larissa (Greece)
Type of business or sector	Natural gas Distribution
Dates	2002 - 2009
Occupation or position held	Assistant Professor
Main activities and responsibilities	Teaching and Research on the fields of Chemical Technology, Pollution Control, Materials Science
Name and address of employer	Technological & Educational Institute of Larissa, Larissa (Greece)
Type of business or sector	Education
Dates	2010 - 2014
Occupation or position held	Associate Professor
Main activities and responsibilities	Teaching and Research on the fields of Chemical Technology, Pollution Control, Materials Science
Name and address of employer	Technological & Educational Institute of Thessaly, Larissa (Greece)
Type of business or sector	Education
Dates	2015 – 1/2019
Occupation or position held	Professor
Main activities and responsibilities	Teaching and Research on the fields of Chemical Technology, Pollution Control, Materials Science
Name and address of employer	Technological & Educational Institute of Thessaly, Larissa (Greece)
Type of business or sector	Education
Dates	2010 – 01/2013
Occupation or position held	Head of Department
Main activities and responsibilities	Head of the Department of Building Renovation and Restoration at the Technological & Educational Institute of Larissa
Name and address of employer	Technological & Educational Institute of Larissa, Trikala (Greece)
Type of business or sector	Administration on Education
Dates	2011 – 2012 and 2016 -2017
Occupation or position held	Elected Member of Research Board
Main activities and responsibilities	Member of Research Board at the Technological & Educational Institute of Thessaly
Name and address of employer	Technological & Educational Institute of Thessaly, Larissa (Greece)
Type of business or sector	Administration of Research
Dates	2012 - 2016
Occupation or position held	Elected Member of Board at the Technological & Educational Institute of Thessaly
Main activities and responsibilities	Member of Board of the Technological & Educational Institute of Thessaly
Name and address of employer	Technological & Educational Institute of Thessaly, Larissa (Greece)
Type of business or sector	Education
Dates	2015 -2018
Occupation or position held	Director at the Technological Research Center of Thessaly

Main activities and responsibilities Director at the Technological Research Center of Thessaly
 Name and address of employer Technological Research Center of Thessaly, Larissa, (Greece)
 Type of business sector Administration of Research

 Dates 12/2017 – 1/2019
 Occupation or position held Rector at the Technological & Educational Institute of Thessaly
 Main activities and responsibilities Head of the Technological & Educational Institute of Thessaly
 Name and address of employer Technological & Educational Institute of Thessaly, Larissa (Greece)
 Type of business sector Administration on Education

 Dates 2019 →
 Occupation or position held Professor
 Main activities and responsibilities Teaching & Research
 Name and address of employer University of Thessaly, Volos (Greece)
 Type of business sector Education

Education and training

Dates 15 December 1983
 Title of qualification awarded Doctor of Philosophy
 Principal subjects / occupational skills covered Heat and Mass Transfer - Condensation of Immiscible Liquids in the presence of a non-condensing gas
 Name and type of organisation providing education and training UMIST, Manchester (United Kingdom)

 Dates 19 March 1981
 Title of qualification awarded Master of Science
 Principal subjects / occupational skills covered Heat and Mass Transfer - Condensation of Miscible Liquids
 Name and type of organisation providing education and training UMIST, Manchester (United Kingdom)

 Dates 01 September 1979
 Title of qualification awarded Diploma in Chemical Engineering
 Name and type of organisation providing education and training Aristotle University of Thessaloniki (Department of Chemical Engineering) Thessaloniki (Greece)

Personal skills and competences

Other language(s)

Self-assessment
European level (*)

English

French

Understanding				Speaking					
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User

(*) Common European Framework of Reference (CEF) level

Social skills and competences	<ul style="list-style-type: none"> -Member of the Hellenic Society of Chemical Engineers -Member of the central & west Thessaly Society of Chemical Engineers -Member of the Hellenic Society of Business Management -Member of the Hellenic Society for Ceramics Honorary -Member of the Technical Chamber of Greece -Member of the Hellenic Node for "Blue Energy". -Member of the Coordination Council for Industrial and Business Policy under the Brand name – "Industry Forum" (General Secretariat of Industry of the Ministry of Economy, Development and Tourism). -Member of the "National Council for Education and Development of Human Resources".
Organizational skills and competences	<ul style="list-style-type: none"> -Head of the Faculty of Chemical Technology in the Department of Exact Studies at the Technological & Educational Institute of Larissa (4 years) -Head of the Department of Building Renovation and Restoration at the Technological & Educational Institute of Larissa (2 years) -Elected Member of Board at the Technological & Educational Institute of Larissa (4 years) -Head of the "CHEMICAL & CONSTRUCTION MATERIALS TECHNOLOGY LABORATORY" at the Technological & Educational Institute of Thessaly (3 years) -Director at the Technological Research Center of Thessaly (3 years) -Rector at the Technological & Educational Institute of Thessaly (15 months). -President of the three-member Secretariat of Rectors and Vice-Chancellors of TEI's -Member of the three-member team of TEI of Thessaly to set the conditions for the unification between TEI of Thessaly and the University of Thessaly.
Computer skills and competences	Excellent use of Microsoft Office, internet, e-class
Driving licence(s)	B

additional information Publications in periodicals

1. A. Papargyris, A. Botis, X. Spiliotis, D. Kasidakis, G. Papapolymerou, "The frost resistance of clay ceramic mixtures as a function of the firing program", *Ceramica Acta*, n 5-6/92, p. 218, 1992.
2. G. Papapolymerou, A. Papargyris, A. Botis, X. Spiliotis, "Selectivity of the reaction $\text{NO} + \text{H}_2$ on Pt, Rh, Ir" *React. Kin. Cat. Lett. Vol 49, No 1* 197-202 (1993).
3. G. Papapolymerou, A. Papargyris, A. Botis, X. Spiliotis, "Dynamic behaviour of the reaction $\text{NO} + \text{H}_2$ on Pt, Rh, Ir", *React. Kin. Cat. Lett. Vol. 49, No 1*, 203-208 (1993).
4. G. Papapolymerou, A. Botis, A. Papargyris, X. Spiliotis, D. Kasidakis, "Decomposition of Hydrazine on Ir", *React. Kinet. Catal. Lett. Vol. 49, No 2*, 339-344 (1993).
5. A. Papargyris, A. Botis, X. Spiliotis, D. Kasidakis, G. Papapolymerou, "Thermal Analysis of Brick clays", *American Ceramic Society Bulletin*, 73 (12), (1994), 53-55.
6. G. Papapolymerou, A. Papargyris, X. Spiliotis, A. Botis, "Kinetics of the bimolecular reaction $\text{NO} + \text{H}_2$ on Pt", *J. Mol. Catal.*, 84, 3, p 267-281 (1993).
7. A. Botis, V. Karayannis, A. Papargyris, G. Papapolymerou, X. Spiliotis, D. Kasidakis, "Particle size distribution-mechanical properties relationship of brick clays", *Key Engng. Materials* 132-136 (1997) 2164-2167.
8. X. Spiliotis, G. Papapolymerou, V. Karayannis, A. Papargyris, A. Botis, D. Kasidakis, "Thermal analysis and mechanical properties of brick clays", *Key Eng. Materials*, 132-136 (1997) 2168-2171.
9. S. Papargyri, D. Tsiapas, A. Botis, X. Spiliotis, A. Papargyris. "Characterisation of carbon fibre kaolin Composites", *Advances in Science and Technology* Vol. 45 (2006) pp. 1450 – 1455.
10. K. Soutsas, V. Karayannis, I. Poullos, A. Riga, K. Ntampogliotis, X. Spiliotis, G. Papapolymerou "Decolorization and degradation of reactive azo dyes via heterogeneous photocatalytic processes" *Desalination*, 250(1), (2010), 345-350.
11. S.A. Papargyri-Mpeni, D.A. Papargyris, X. Spiliotis, A.D. Papargyris "Comparison of acoustic

emission produced during bending of various oxide ceramic and short fiber oxide ceramic matrix composites" *J. Acoustic Emission*, 28 (2010) p.p. 246-255.

12. N. Koukouzas, C. Ketikidis, G. Itskos, X. Spiliotis, V. Karayannis, G. Papapolymerou, "Synthesis of CFB-Coal Fly Ash clay bricks and their characterisation", *Waste and Biomass Valor* (2011) 2:87-94.

13. X. Spiliotis, K. Ntampeglitis, D. Kasiteropoulou, S. Lamprakopoulos, K. Lolos, V. Karayannis and G. Papapolymerou, "Valorisation of Mill Scale Waste by its Incorporation in Fired Clay Bricks". *Key Engineering Materials Vol.608* (2014) pp 8-13 © (2014).

14. N. Gougoulas, X. Spiliotis, V. Karayannis, N. Chouliaras, G. Papapolymerou, "The biodegradation of algae species *Chlorella vulgaris* and oregano foliar tissues in soil during incubation, and their effects on soil chemical properties" *Annals of the University of Craiova, Series Biology & Environmental Engineering*, V. XIX(LV) (2014) 467-474

15. G. Papapolymerou, N. Gougoulas, X. Spiliotis, V. Karayannis, D. Kantas, S. Papadopoulos, A. Kokkalis, L. Ntoufas, "Effect of different concentrations of macronutrients on the growth rate and cultivation of algae species *Chlorella vulgaris*", *Annals of the University of Craiova, Series Biology & Environmental Engineering*, V. XIX(LV) (2014) 557-562.

16. A.E. Domopoulou, X.D. Spiliotis, K.I. Ntampeglitis, K.H. Gudulas, G.A.-P. Papapolymerou, V.G. Karayannis, "Compacted ceramics incorporating recycled marble processing residue", *Journal of International Scientific Publications: Materials, Methods and Technologies*, 8 (2014) 786-791.

17. V. Karayannis, X. Spiliotis, K. Ntampeglitis, N. Koukouzas, I. Tsianakas, N. Taousanidis, G. Papapolymerou, "Reliability analysis of clay bricks incorporating industrial solid by-products", *Modern Applied Science*, 8 (6) (2014) 219-228.

18. S. Lamprakopoulos, V. Karayannis, G. Papapolymerou, S. Zaoutsos, K. Ntampeglitis, X. Spiliotis, "Sustainable development of P/M ceramics from steel mill scale and lignite fly ash mixtures", *WIT Transactions on the Built Environment*, 168 (2015) 301-312.

19. V. Karayannis, G. Papapolymerou, S. Zaoutsos, S. Lamprakopoulos, K. Ntampeglitis, X. Spiliotis, "Innovative synergistic valorization of lignite fly ash and steel industry scrap-soil as secondary resources for compacted ceramics", *Key Engineering Materials*, 660 (2015) 268-272.

20. V. Karayannis, X. Spiliotis, K. Ntampeglitis, E. Papastergiadis, G. Papapolymerou, P. Samaras, "Contribution to the sustainable management of resources by novel combination of industrial solid residues into red ceramics", *Bulletin of Environmental Contamination and Toxicology*, 94 (3) (2015) 345-351.

21. X.D. Spiliotis, K.I. Ntampeglitis, V.G. Karayannis, G.A. Papapolymerou "Physico-mechanical properties of extruded & sintered ceramics using pet coke and sewage sludge as admixtures", *Journal of Ceramic Processing Research*, 16 (1) (2015) 11-17.

22. V. Karayannis, X. Spiliotis, A. Domopoulou, K. Ntampeglitis, G. Papapolymerou, "Optimized synthesis of construction ceramic materials using high-Ca fly ash as admixture", *Revista Romana de Materiale / Romanian Journal of Materials*, 45 (4) (2015) 358-363

23. A. Papaioannou, G. Rigas, S. Kella, F. Lokkas, D. Dinouli, A. Papakonstantinou, X. Spiliotis, P. Plageras, "Assessment of Groundwater Quality by Chemometrics", *Water Environ Res.* 2016 Jul;88(7):631-43.

24. S. Lamprakopoulos, V. Karayannis, G. Papapolymerou, D. Kasiteropoulou, K. Ntampeglitis, X. Spiliotis, "Development of engineering ceramics 100% from lignite fly ash and steelmaking EAF mixtures" *Journal of Ceramic Processing Research*, 17 (9) (2016) 985-989.

25. V. Karayannis, K. Ntampeglitis, S. Lamprakopoulos, D. Kasiteropoulou, G. Papapolymerou, X. Spiliotis, "Development of extruded and sintered clay bricks with beneficial use of industrial "scrap-soil" as admixture", *Revista Romana de Materiale / Romanian Journal of Materials*, 46 (4) (2016) 523-529.

26. V. Karayannis, S. Lamprakopoulos, A. Domopoulou, P. Kyratsis, G. Papapolymerou, X. Spiliotis, "Processing of steel mill scale for manufacturing novel engineering ceramics by powder metallurgy", *Academic Journal of Manufacturing Engineering*, 15 (2) (2017) 65-71.

27. V. Karayannis, K. Ntampeglitis, S. Lamprakopoulos, G. Papapolymerou, X. Spiliotis, "Novel sintered ceramic materials incorporated with EAF Carbon steel slag", *Materials Research Express*, 4 (1) (2017) 015505.

28. G. Papapolymerou, V. Karayannis, D. Kantas, S. Papadopoulos, N. Gougoulas, X. Spiliotis, "Growing *Chlorella vulgaris* into bioreactors set in solar greenhouse, towards biofuel: Nutrient composition", *Journal of Applied Biotechnology & Bioengineering*, 5 (2) (2018) 106-110.

29. N. Gougoulas, G. Papapolymerou, V. Karayannis, X. Spiliotis, N. Chouliaras, "Effects of manure enriched with algae *Chlorella vulgaris* on soil chemical properties", *Soil and Water Research*, 13 (1) (2018) 51-59.

30. G. Papapolymerou, V. Karayannis, A. Besios, A. Riga, N. Gougoulas, X. Spiliotis, "Scaling-up sustainable *Chlorella vulgaris* microalgal cultivation from laboratory to pilot-plant photobioreactor, towards biofuel", *Global Nest*, 21 (1) (2019) 37-42.
31. X. Spiliotis, V. Karayannis, S. Lamprakopoulos, S. Zaoutsos, G. Papapolymerou, "Development of reliable building bricks incorporating olive-mill wastewater, focusing on thermal insulation and energy savings", *Journal of Chemical Technology and Metallurgy*, Accepted, to be Published (2019).

International conferences

1. A.A. Nassikas, X.D. Spiliotis, C.B. Akritides, "Supersonic distillator", *Proceedings of 10th Intrn. Congress of Chem. Engng. Equipment Design & Automation, CHISA 1990, Prague, C6:17/491*.
2. X.D. Spiliotis, "Explanations on the cold fusion phenomena", *Congress-2000 proceedings "Fundamental problems of natural sciences and engineering" St. Petersburg 2003, Part III, p. 442*.
3. G.P. Papapolymerou, A.D. Tzachanis, X.D. Spiliotis, "Selectivity of Hydrazine decomposition on Pt, Rh, and Ir", *Intrn. Conference on Materials Science and Engng., Brasov, Romania, March 2003*.
4. X. Spiliotis, A. Riga, K. Ntambegliotis, V. Karayannis, I. Domazinaki, G. Papapolymerou, "Application of advanced oxidation methods for the decolorization of Remazol type dyes. Comparison of the decolorization kinetics and efficiencies between Fenton and TiO₂/UV-A processes". *Proceedings of the 2nd International Energy and Environment Symposium (IEEES2), Kos, Greece, 07/2005*.
5. X. Spiliotis, V. Karayannis, N. Koukouzas,, D. Kasidakis, D. Papanikolaou, A. Riga, G. Papapolymerou, "Physicomechanical properties of bricks containing recycled lignite fly ash", *Proceedings of the 10th International Conference of the European Ceramic Society, Berlin, Germany, , paper No 1227, p.p. 1757 – 1762, 06/2007*.
6. K. Soutsas, V. Karayannis, A. Riga, K. Ntambegliotis, X. Spiliotis, G. Papapolymerou, "Decolorization kinetics of reactive azo dyes via photochemical and photocatalytic processes", *Proceedings of the CEMEPE 07 – 1st International Conference on Environment Management, Engineering Planning & Economics, Vol. III, 13 - Industrial Waste, Paper No F580, pp. 1833-1838, Skiathos, Greece, 06/2007*.
7. X. Spiliotis, V. Karayannis, n. Koukouzas, K. Ntambegliotis, G. Papapolymerou, "Sintering process optimization in clay bricks containing recycled fly ash", *Proceedings of the CHISA 2008, 18th International Congress of Chemical and Process Engineering, Prague, Czech Republic, 24- 28 August 2008*.
8. X. Spiliotis, "Physico-Mechanical Properties of Clay Bricks Containing Recycled Olive Mill Residues", *23rd International Mining Congress & Exhibition of Turkey, 16-19 April 2013 ANTALYA, p. 381. ISBN: 978-605-01-0467-7*.
9. X.D. Spiliotis, K.I. Ntampegliotis, V.G. Karayannis, N.K. Koukouzas, G.A. Papapolymerou, "Weinbull analysis and flexural strength of clay-based bricks incorporating powdery industrial by- products", *10th HSTAM International Congress on Mechanics, Chania, Greece, May, 25-27, 2013. Book of Abstracts and Congress Proceedings, p99. ISBN 978-960-8475-18-2*.
10. X. D. Spiliotis, "Ceramic clay materials incorporating alternative solid fuel (ASF) – effect on the final material properties", *10th HSTAM International Congress on Mechanics, Chania, Greece, May, 25-27, 2013. Book of Abstracts and Congress Proceedings, p76. ISBN 978-960-8475 -18-2*.
11. V. Karayannis, X. Spiliotis, K. Ntampegliotis, N.K. Koukouzas, G. Papapolymerou, "Enhancing the thermal insulation of clay bricks using fly ash as pore - forming agent", *ELCAS3 – 3rd International Exergy, Life Cycle Assessment, and Sustainability Workshop & Symposium, Nisyros Island, Greece, July, 7-9, 2013, pp. 459-469, ISBN: 978-960-243-691-2*.
12. V. Karayannis, P. Samaras, X. Spiliotis, V. Tsiridis, A. Domopoulou, K. Gudulas, G. Papapolymerou, "Leaching behavior of bricks produced from extruded clay/industrial solid by-product mixtures", *Book of Abstracts of the 4th International Conference on Environmental*

13. P. Samaras, V. Karayannis, X. Spiliotis, K. Ntampeglitis, G. Papapolymerou, "Sustainable use of resources into fired clay bricks", Proceedings SDIMI 2013 – 6th International Conference on Sustainable Development in the Minerals Industry, Milos island, Greece, June 30 - July 3, 2013.
14. G. Papapolymerou, X. Spiliotis, V. Karayannis, N. Gougoulis, D. Kasiteropoulou, " Microalgal cultivation and biofuel production–Effect of nitrogen restriction". Book of Abstracts of the 4th International Conference on Environmental Management, Engineering, Planning and Economics CEMEPE) and SECOTOX Conference ISBN: 978-960-6865-67-1, Mykonos Island, Greece, June 24-28, 2013.
15. D. Kalogiannis, X. Spiliotis, D.E. Mouzakis, S.P. Zaoutsos, "Determination of the impact response of novel clay based ceramics". The 5th International Conference on Structural Analysis of Advanced Materials", Book of Abstracts pp ,23 - 26 September 2013, Island of Kos, Greece.
16. X. Spiliotis, N. Gougoulis, V. Karayannis, D. Kasiteropoulou, G. Papapolymerou "Effect of pH on the growth rate and productivity of wild algal species" ICOEST 2014, 2nd Int. Conf. on Environmental Science and Tech., May 14–17, 2014, Side, Turkey.
17. X. Spiliotis, V. Karayannis, N. Koukouzas, K. Ntampeglitis, G. Papapolymerou, "Comparative microstructural evaluation of red ceramics incorporated with inorganic secondary materials", International Microscopy Congress 2014, 7 - 12 September 2014, Prague, Czech Republic.
18. V. Karayannis, D. Kasiteropoulou, K. Ntampeglitis, S. Lamprakopoulos, G. Papapolymerou, X. Spiliotis, "Valorization of steel mill scale for manufacturing innovative engineering ceramics and Environmental protection", CHISA 2014 – 21st International Congress of Chemical and Process Engineering, P r a g u e , C z e c h R e p u b l i c , August, 23-27, 2014, ISBN: 978-80-02-02555-9.
19. V. Karayannis, X. Spiliotis, G. Charalampides, K. Ntampeglitis, N. Koukouzas, G. Papapolymerou, "Use of class-C fly ash into construction bricks produced by extrusion and sintering", Proceedings of the 2nd International ROMCEN Conference (Production and use of fly ash in construction industry - Present situation and perspectives), Calimanesti-Cozia, Romania, June 24-25, 2014.
20. K. Ntampeglitis, D. Kasiteropoulou, S. Lamprakopoulos, V. Karayannis, G. Papapolymerou, X. Spiliotis, "EAFC beneficial utilization in extruded clay bricks manufacturing", Proceedings of the PRE XII – 12th Intern. Conference on Protection & Restoration of the Environment, Skiathos, Greece, June 29 – July 3, 2014.
21. V. Karayannis, P. Samaras, Tsiridis, X. Spiliotis, G. Papapolymerou, "Environmental properties of clay bricks incorporating industrial by - products", World Water Congress & Exhibition – International Water Association, Lisbon, Portugal, Sept. 21-26, 2014 Extended Summary Accepted for Presentation.
22. X. Spiliotis, V. Karayannis, N. Koukouzas, K. Ntampeglitis, G. Papapolymerou, "Comparative Microstructural evaluation of red ceramics incorporated with inorganic secondary materials", IMC 2014 – 18th International Microscopy Congress, Prague, Czech Republic, Sept. 7-12, 2014. Abstract Submitted.
23. X. Spiliotis, K. Ntampeglitis, D. Kasiteropoulou, V. Karayannis, G. Papapolymerou, "Contribution to the management of steel industry scrap-soil by its utilization into red ceramics", GREENCHEM4 4th International Symposium on Green Chemistry for Environment, Health and Development, Kos Island, Greece, Sept. 24-26, 2014.
24. V. Karayannis, X. Spiliotis, P. Samaras, N. Koukouzas, K. Ntampeglitis, A. Domopoulou, K. Gudulas, G. Papapolymerou, "Recycling of lignite highly-calcareous fly ash into building bricks", Book of Abstracts of the GREENCHEM4 – 4th International Symposium on Green Chemistry for Environment, Health and Development, Kos island, Greece, Sept. 24-26, 2014.
25. A. Domopoulou, X. Spiliotis, N. Koukouzas, K. Gudulas, G. Papapolymerou, V. Karayannis, "Innovative processing of clayey minerals towards ceramics synthesis", Proceedings of the IOC

2014 – 46th International October Conference, Bor Lake, Bor, Serbia.

26. A. Domopoulou, K. Gudulas, X. Spiliotis, G. Charalampidis, G. Papapolymerou, V. Karayannis, "Compacted ceramics incorporating recycled marble processing residue", 16th International Conference on Materials, Methods & Technologies, Bulgaria, June 11-15, 2014.
27. Dimitrios Kalogiannis, Dionysios E. Mouzakis, Stefanos P. Zaoutsos, Dimos Zachos, Xenofon Spiliotis, "Fracture toughness response of novel clay-based ceramics", 6th International Conference from "Scientific Computing to Computational Engineering", Athens, 9 -12 July, 2014.
28. A. Domopoulou, X. Spiliotis, A. Baklavariadis, G. Papapolymerou, V. Karayannis, "New ceramics incorporated with industrial by-products as pore formers for sorption of toxic chromium from aqueous media", European Geosciences Union, General Assembly 2015, Vienna 12 -17 April 2015.
29. V. Karayannis, G. Papapolymerou, S. Zaoutsos, S. Lamprakopoulos, K. Ntampeglitis and X. Spiliotis, "Innovative synergistic valorization of lignite fly ash and steel industry scrap-soil as secondary resources for compacted ceramics", EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION, EUROINVENT, IAȘI – ROMANIA, VIth Edition, 14th - 16th May 2015.
30. Stellos Lamprakopoulos, Vaios Karayannis, George Papapolymerou, Stefanos Zaoutsos, Konstantinos Ntampeglitis and Xenophon Spiliotis, "Management of Mill Scale through the fabrication of fly ash-based ceramics", 7th International Conference on Sustainable Development and Planning, 19 – 21 May 2015, Istanbul, Turkey.
31. S. Lamprakopoulos, V. Karayannis, G. Papapolymerou, D. Kasiteropoulou, K. Ntampeglitis and X. Spiliotis, "Lignite fly ash and EAFC as raw materials for ceramics", Fifth Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2015), Mykonos 14 – 17 June 2015.
32. D. Kantas, S. Papadopoulos, G. Papapolymerou, N. Gougoulis, V. Karayannis, X. Spiliotis, "The macronutrient content of Chlorella vulgaris microalgae grown in laboratory and small pilot-scale bioreactors", Fifth Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2015), Mykonos 14 – 17 June 2015.
33. G. Papapolymerou, An. Besios, A. Riga, N. Gougoulis, X. Spiliotis, V. Karayannis, "Comparative performance of a pilot-plant and a laboratory photobioreactor for the cultivation of the microalgal species Chlorella vulgaris", Fifth Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2015), Mykonos 14 – 17 June 2015.
34. V. Karayannis, E. Lakioti, X. Spiliotis, A. Zabaniotou, A. Domopoulou, G. Papapolymerou, "Social acceptance of innovation in renewable resource and energy efficiency towards sustainable development", Book of Abstracts of the International Symposium and Workshop "Circular Economy and Sustainable Management of Renewable Resources in the context of Climate Change and Social Upheavals", Nisyros, Greece, July, 20-22, 2016.
35. S. Lamprakopoulos, K. Ntampeglitis, X. Spiliotis, S. Zaoutsos, G. Papapolymerou, V. Karayannis, "Physico-mechanical properties of ceramic materials made from fly ash and metallurgical wastes", Proceedings of the 7th IC-SCCE – 7th International Conference from Scientific Computing to Computational Engineering, Athens, Greece, July 6-9, 2016.

National conferences

1. A. Παπαργύρης, Α. Μπότης, Ξ. Σπηλιώτης, Δ. Κασιδάκης «Χημική σύσταση και μηχανικές ιδιότητες κεραμικών πρώτων υλών περιοχής Θεσσαλίας», 13ο Πανελλήνιο Συνέδριο Χημείας, ΕΕΧ, Αθήνα 1991, Πρακτικά Τόμος Α', σελ. 364 – 368.
2. Κ. Νταμπεγλιώτης, Β. Καραγιάννης, Α. Ρήγα, Ξ. Σπηλιώτης, Β. Μποντόζογλου,, Γ. Παπαπολυμέρου, "Επεξεργασία υγρών αποβλήτων βαφείων με αντιδράσεις τύπου Fenton", Πρακτικά 1ου Πανελληνίου Συνεδρίου Μονάδων Επεξεργασίας Υγρών Αποβλήτων Μικρής Κλίμακας, Πορταριά, 04/2006.
3. P. Plageras, P. Papaioannou, X. Spiliotis, E. Dovriki, M. Gialama, Z. Georgiou, A. Plageras, G.

Dounias, N. Kikemenis, V. Petrova, A. Dizdar, K. Kousoulaki "Survey for the needs of waste management training transfer to health care sector. Experience from four countries: Greece, Turkey, Bulgaria and Norway". Proceedings of 4th Intern. Conference of EEDSA. Solid Waste Management in crisis, Athens 30th Nov. – 1st Dec., 2012. ISBN: 978-960-6865-54-1.

4. Ξ. Σπηλιώτης, Κ. Νταμπεγλιώτης, Δ. Κασιτεροπούλου, Β. Καραγιάννης, Γ. Παπαπολυμέρου, "Αξιοποίηση υγρού κασίγαρου στην κεραμική βιομηχανία – Τεχνικές μείωσης εκπομπών CO₂", 16ο Πανελλήνιο Συνέδριο Κεραμικών Υλικών 3-4 Απριλίου 2014, Αθήνα.

5. Σ. Λαμπρακόπουλος, Κ. Νταμπεγλιώτης, Δ. Κασιτεροπούλου, Β. Καραγιάννης, Γ. Παπαπολυμέρου, Ξ. Σπηλιώτης, "Μελέτη θερμικής συμπεριφοράς μιγμάτων οργανικών αποβλήτων με πηλώδη χρώματα", 6ο Πανελλήνιο Συνέδριο Θερμικής Ανάλυσης & Θερμιδομετρίας, Λάρισα, 26-28 Σεπτεμβρίου 2014.

6. S. Lamprakopoulos, K. Ntampeglitis, D. Kasiteropoulou, V. Karayannis, G. Papapolymerou, X. Spiliotis, "Novel combined valorization of Mill Scale Waste and Sewage Sludge into fired clay bricks. Environmental impact", 2ο Περιβαλλοντικό Συνέδριο Θεσσαλίας, Σκιάθος, 09/2015

Publications in collective volumes

1. X. Spiliotis, G. Papapolymerou, K. Ntampeglitis, V. Karayannis, "Sewage Sludge & Pet Coke into clays: Effect on process & materials properties", Proceedings of the 23rd International Mining Congress and Exhibition of Turkey, IMCET 2013, 1, pp. 373-380
2. P. Samaras, X. Spiliotis, N. Koukouzas, E. Papastergiadis, G. Papapolymerou, V. Karayannis, "Elaboration of new ceramic supports from lignite fly ash/clay mixtures using powder metallurgy processes", 21st International Congress of Chemical and Process Engineering, CHISA 2014 and 17th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, PRES 2014 4, pp. 2328.
3. K. Lolos, K. Ntampeglitis, D. Kasiteropoulou, V. Karayannis, G. Papapolymerou, X. Spiliotis, "Steel making EAF as the raw material into novel ceramics", 21st International Congress of Chemical and Process Engineering, CHISA 2014 and 17th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, PRES 2014 3, pp. 1338
4. A. Domopoulou, X. Spiliotis, G. Charalampides, A. Baklavariadis, G. Papapolymerou, V. Karayannis, "Development of tailored ceramic microstructures using recycled marble processing residue as pore-former", IOP Conference Series: Materials Science and Engineering, 133 (2016) 012030 9 pages

Research activities

His main research interests are in the fields of environmental pollution control and Materials Technology with emphasis on the development of modern ceramic –building materials, circular economy, industrial symbiosis and secondary raw materials.

- Member of Research team in the Technological and Educational Institute of Larissa in the area of promoting the quality of ceramic products use in buildings.
- Member of Research team in the Technological and Educational Institute of Larissa in the area of Remazol decolorization (Archimedes I, 12-5-2004 until 31-12-2007).
- Member of Research team in the Technological and Educational Institute of Larissa in the area of statistical and mechanical behaviour of caolin + graphite fibres and cement + flying ash (Archimedes II, 01-01-2005 until 31-12-2007).
- Responsible of a Research team in the Technological and Educational Institute of Larissa in the area of development of new advanced ceramic products by incorporating industrial dust wastes in brick clays (Archimedes II, 01-01-2005 until 31-12-2007)
- Member in «unit of innovation and entrepreneurship of technological educational institute of Larissa» Deliverable: Case study "Sewage sludge recycling into ceramics" (28-02-2012 until 05-07-2012).
- Member of Research team in the Technological and Educational Institute of W. Macedonia in the «Valorization of industrial and agricultural solid residuals into ceramics» (Archimedes III, 01-03-2012 until 28-02-2015).
- Member of Research team in the Technological and Educational Institute of Larissa in "competence based e-learning in general & health care management for new skills development" [LLP-LdV-TOI-2011-11GR1-LEO 05-6797].
- Responsible of a Research team in the Technological and Educational Institute of Larissa in the area of incorporation of by-products of olive mills, sewage sludge, ASF and pet coke into ceramic tiles. Research program sponsored by the private sector (TERRA SA, 7-10-2011 until 31-8-2014).

- Responsible of a Research team in the Technological and Educational Institute of Larissa in the area of novel ceramic materials (SYNERGASIA 2011, 1-1-2013 until 30-6-2015).
 - Member of Research team in the Technological and Educational Institute of Larissa in the area of algae fuel production (SYNERGASIA 2011, 1-1-2013 until 30-6-2015).
 - Member of the teaching staff at the postgraduate program: "CONTEMPORARY TECHNOLOGIES OF ENVIRONMENTAL MANAGEMENT PROJECTS", Technological and Educational Institute of Thessaly, Civil Engineering Department.
 - Institutional responsible for the ERASMUS+ program at the Technological and Educational Institute of Thessaly
 - Scientific director for the KA... ERASMUS+ programs at the Technological and Educational Institute of Thessaly.
 - Member of the research team in the Technological and Educational Institute of Thessaly at "Interreg MED GREENHOUSES"
 - Member of Research team in the University of Thessaly in "USE OF LIQUID WASTES FOR MICROPHYCULAR CROPS AND THEIR USE FOR THE PRODUCTION OF BIODIESEL AND FISH SUPPLEMENTS" (program code: 5944).
 - Member of Research team in the University of Thessaly in "GSRT Designation for the Program LIFE ADAPT2CHANGE" (program code: 5960).
- Assessor at IKY
 - Reviewer at "THE HYPOTHESIS AND THE EQUATIONS OF THE UNIFIED MATTER FIELD" by A.A. Nassikas.
 - Member of Organizing Committee of the congress "THERMA2014"
 - Editorial board member/peer reviewer of (International Journal of Materials Science and Applications), Science PG.
 - Reviewer – scientific collaborator at the "Journal of Building Engineering".
 - Assessor at the program "Supporting researchers with an emphasis on young researchers" (Development of Human Resources, Education and Lifelong Learning 2014 - 2020)
 - Scientific collaborator in the WESSEX Institute.
 - Member of evaluation committee - priority sectors of RIS3 on the fields of "Microelectronics" and "Advanced Materials" (W. Greece Region 2014 – 2020).
 - Member of evaluation committee - Bilateral & Multilateral Co-operation between Greece and China – Environment.

Co-writer in books

- A. Botis, X. Spiliotis, A. Papargyris, D. Kasidakis «Laboratory techniques for quality control on materials». Technological & Educational Institute of Larissa, 92 pages, Textbook for the course: Infrastructure Engineering (1992).
- X. Spiliotis, G. Papapolymerou, A. Botis, A. Papargyris, «Chemical Technology-Laboratory experiments on spectral and chromatographic analysis techniques». Technology, Technological & Educational Institute of Larissa, 56 pages, Textbook for the course: Medical laboratories (1995).

Monographs

- Analytical Instruments Technology, Technological & Educational Institute of Larissa (1991), 97 pages, Textbook for the course: Medical laboratories.
- Laboratory testing on building materials, Technological & Educational Institute of Larissa (2001), 63 pages, Textbook for the course: Infrastructure Engineering.
- Laboratory Experiments on General Chemistry, Technological & Educational Institute of Larissa (2011), 190 pages, Textbook for the course: Medical laboratories.
- Laboratory Experiments on Building Materials, Technological & Educational Institute of Larissa (2011), 325 pages, Textbook for the course: Infrastructure Engineering.
- Laboratory experiments on asphalt and asphalt concrete, Technological & Educational Institute of Thessaly (2014), 42 pages, Textbook for the course: Civil Engineering.
- "MATERIALS FOR TECHNICAL WORKS AND ENVIRONMENTAL PROTECTION", Textbook for the postgraduate course "CONTEMPORARY TECHNOLOGIES OF ENVIRONMENTAL MANAGEMENT PROJECTS" (149 pages)

Citations

More than 220