



## **Dr. Nick ZYGOURIS**

Technical Chamber of Greece

Nominated National Member Candidate for the Executive Council of WFEO  
for the year 2025 elections

### **Personal message to the WFEO GA**

Dear Colleagues,

I represent a small country that has made a great contribution not only to human civilization but also to engineering development.

At present period the world is facing great challenges, and engineers have a major mission to face them. The pace of technological development is accelerating every day, demanding engineers to continuously update their skills and knowledge, being always the tip of the spear.

The role of engineering organizations is now more than ever demanding, since they are responsible for identifying the problems and then inventing and proposing solutions aimed at enhancing living standards, reducing inequalities and improving the overall quality of people's daily lives.

For these reasons, it's essential for all of us to collaborate, regardless of where we come from. Our goal is to motivate, to inspire and support engineers worldwide in embracing the challenges of this new era.

For these reasons, the **Technical Chamber of Greece** decided to participate in this initiative and nominated me as a candidate for the Executive Council of WFEO.

My mission is to contribute with all my efforts to promoting the engineering profession and to work for a better world.

Thank you!

Dr. Nick ZYGOURIS

Technical Chamber of Greece



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### **Short CV**

Nick ZYGOURIS was born in 1968 in Greece. He graduated from the Civil Engineering Department of the National Technical University of Athens (1991). He holds an MSc degree from UMIST and a PhD from National Technical University of Athens specializing in the seismic design of reinforced concrete structures.

As the founder and key stakeholder of LITHOS Consulting Engineers, Dr. ZYGOURIS has led the design of numerous complex and large-scale projects, including metro stations, bridges, and industrial facilities, both in Greece and internationally.

He is also an adjunct Professor at the National Technical University of Athens (MSc Course on Management and Construction of Projects) and the School of Pedagogical & Technological Education, where he teaches concrete structures and bridge design.

In parallel with his professional activities, Nick ZYGOURIS has written several books and scientific papers in his field and has been an active member of various National and International scientific committees such as the Earthquake Planning and Protection Organization of Greece, the European Centre on Prevention and Forecasting of Earthquakes, the Federation International du Beton e.tc.

He was elected to the Executive Board of the Association of Civil Engineers of Greece in 2000 and served as President from 2010 to 2012.

He has served as member of the General Assembly of the Technical Chamber of Greece (TCG) and he has represented the Technical Chamber of Greece (TCG) in organizations such as the European Council of Civil Engineers (ECCE) and the Engineering Association of Mediterranean Countries (EAMC).

Athens 14-4-2025



**Short  
Curriculum Vitae of  
Dr. Nick Zygouris  
Civil Engineer, MSc, PhD, PE**

**Personal Data**

**Date of birth:**

26.09.1968

**Place of birth:**

Komotini, Greece

**Contact details**

**Address:** 34 Anagirountos Av., 16672, Vari, Greece

**Phone:** +30-6944-414079

**Email:** [NSZ@lithos.com.gr](mailto:NSZ@lithos.com.gr)

**Education**

**PhD National Technical University of Athens**

Laboratory of Reinforced Concrete Structures, National Technical University of Athens (2021)

**Master of Science in Structural Engineering**

University of Manchester Institute of Science and Technology (1992)

**Civil Engineering Diploma**

National Technical University of Athens (1991)

**Computer Analysis and Programming**

Hellenic Centre of Productivity (1988)

**Academic**

**National Technical University of Athens (NTUA)**

Position: Adjunct professor

MSc Course, Management and Construction of projects

**School of Pedagogical & Technological Education**

Position: Adjunct professor

Course: Special topics on reinforced concrete.

Reinforced concrete

Repair and strengthening of concrete structures

Bridge structures

**Professional Experience**

**LITHOS Consulting Engineers**

Position: Manager and Director

Consulting company on the subject the structural and seismic design, supervision and management of civil engineering projects such as complex structures, rehabilitation of old monumental buildings, steelwork and concrete structures - [www.lithos.com.gr](http://www.lithos.com.gr)

**Professional certification**

Professional Engineer, Technical Chamber of Greece

Officially registered Engineer with the Class C degree as structural designer in the Public Works Consulting Record

**Languages**

Greek (Native)

English (Very Good)

French (Working Level)

**Scientific committees and organizations**

**Earthquake Planning and Protection Organization of Greece**

Member of the scientific committee for the application of the Greek Seismic Design Code (2004 – today)

Member of board (2004-2012)

**European Centre on Prevention and Forecasting of Earthquakes**

Member of the board (2004-2012)

**Federation International du Beton (FIB)**

Member

Member of committee 6.9 “Parking Structures”

**International Association of Bridge and Structural Engineers (IABSE)**

Member

**Institution of Civil Engineers (ICE)**

Member

**Institution of Structural Engineers (IStructE)**

Member

**International Committee for Industrial Construction (CICIND)**

Member

**National organizations    Association of Civil Engineers of Greece (ACEG)**

Elected member of Board (2000-2012)

President (2009-2012)

**Technical Chamber of Greece**

Elected member of the General Assembly (2012-2016)

Member of the Special Technical Committee of Mechanics, (2000-2012)

**Greek Cadastre Organization**

Executive Vice President (2012-2015)

**International organizations**

**European Council of Civil Engineers (ECCE)**

National representative in General Assembly (2000-2014)

Elected member of Executive Board (2012-2014)

**Engineering Association of Mediterranean Countries (EAMC)**

Elected member of the Executive Board (2020-today)

President of the working committee of Construction & Infrastructure (2016- 2020)

**Engineers EUROPE**

Member of the Hellenic National Monitoring Committee (2020- today)

**Research programs**

**National Technical University of Athens, 1995**

Title: "Automatic design and seismic analysis of reinforced concrete structures according to the new codes"

**Greek Ministry of Education and Religion, 2014**

Title: "Software development for the assessment of reinforced concrete structures using modern methods"

**Scientific Books**

- «Practical Manual for Construction», Verlag Dashofer, 2006
- Hummar G, Zadnik B., Zygouris N., «Civil Engineering Heritage», European Council of Civil Engineers (ECCE), 2009
- «Technical Directive 1: Concreting under with low environmental temperature», ed. Association of Civil Engineers of Greece, 2011, (member of editorial board)

- «Technical Directive 2: Concreting under with high environmental temperature», ed. Association of Civil Engineers of Greece, 2011, (member of editorial board)
- «Technical Directive 3: Concreting under with normal environmental temperature», ed. Association of Civil Engineers of Greece 2012, (member of editorial board)
- «Technical Directive 4: Concrete Floors», ed. Association of Civil Engineers of Greece, 2013, (member of editorial board)
- «Technical Directive 5: Self-Compacting Concrete», ed. Association of Civil Engineers of Greece, 2014, (member of editorial board)
- «Technical Directive 6: Concrete Durability», ed. Association of Civil Engineers of Greece, 2015, (member of editorial board)
- «Technical Directive 7: Corrosion of steel reinforcement», ed. Association of Civil Engineers of Greece, 2016, (member of editorial board)
- «Technical Directive 8 : Repair of concrete cracks », ed. Association of Civil Engineers of Greece, 2019, (member of editorial board)

#### Scientific Papers

- McCarthy T.J., **Zygouris N.**, Lamb M.R., "Learning through Computer Assisted Design and Detailing of Reinforced Concrete Beams", Developments in Artificial Intelligence for Civil & Structural Engineering, Topping, B (Ed), Civil Comp. Press, 1995, pp 247-253.
- Chronopoulos M., **Zygouris N.**, "Problems of seismic design of traditional buildings, examples of rehabilitation and strengthening", One day Seminar Seismic Design of traditional Buildings», Athens, December 2008.
- Chronopoulos P., **Zygouris N.**, Asteris P., "Investigation-Documentation and Aspects of Seismic Assessment and Redesign of Traditional Masonry Buildings in Greece", EACS 2012 – 5th European Conference on Structural Control, Genoa, Italy – 18-20 June 2012.
- Chronopoulos P., **Zygouris N.**, Panagiotakos T., "Secondary structural elements in new and existing buildings", Journal of the Association of Civil Engineers of Greece No. 403, July-August 2012
- **N.St.Zygouris**, G.M. Kotsovos, M.D. Kotsovos, "Effect of transverse reinforcement on short structural wall behaviour", Magazine of Concrete Research, July 2013, Vol. 65(17), pp.1034 –1043

- **N.St.Zygouris**, G.M. Kotsovos, D.M. Cotsovos, M.D. Kotsovos “Design for earthquake-resistant reinforced concrete structural walls”, *Mechanica* 2014
- **N.St.Zygouris**, G.M. Kotsovos, M.D. Kotsovos “Design for earthquake-resistant short RC structural walls”, (to be published)
- Chatzipanos P., Lykouropoulos L., **Zygouris N.** “Complexity in Projects of Greek State Reforms: National Cadastre”, 2014 PMI Global Congress Proceedings, At Phoenix, Arizona, USA
- G.M. Kotsovos, **N.Zygouris**, “Reinforced concrete frame analysis with mode of failure prediction capability”, *Magazine of Concrete Research*, Dec 2017
- **Ali Benzaamia**, **Mohamed Ghrici**, **Redouane Rebouh**, **Nikos Zygouris**, **Panagiotis G. Asteris** (2024) “Predicting the shear strength of rectangular RC beams strengthened with externally bonded FRP composites using constrained monotonic neural networks”, *Engineering Structures* 313 (2024)
- E.Koutras, **N. Zygouris**, K.Repapis, A. Drougkas, K.Pilakoutas, P.Asteris “Shear strength of reinforced concrete beams without stirrups by using Machine Learning”, 19th Hellenic Concrete Conference, Thessaloniki, 2024
- A. Zeyad, A. Mahmoud, A. El-Sayed, A. Aboraya, I. Fathy, **N. Zygouris**, P. Asteris, I. Agwa, “Compressive strength of nano concrete materials under elevated temperatures using machine learning”, *Scientific Reports* 14 (1), 24246
- A. Mahmoud, A. El-Sayed, A. Aboraya, I. Fathy, **N. Zygouris**, A.Sadollah, B. Tayeh, P. Asteris, “Synergizing machine learning and experimental analysis to predict post-heating compressive strength in waste concrete”, *Structural Concrete* 2025; pp 1–35.
- P. Asteris, D. Armaghani, A. Gandomi, A. Mohammed, Z. Bousiou, I. Batsis, N. Spyridis, G. Karavalakis, A. Vardi, E. Yannaki, L. Triantafyllidis, E. Koutras, **N. Zygouris**, G. Drosopoulos, N. Fountas, N. Vaxevanidis, A. Bardhan, P. Samui, G. Hatzigeorgiou, J. Zhou, K. Leontari, P. Evangelidis, I. Sakellari, E. Gavrilaki, “Pre-transplant and Transplant Parameters Predict Long-term Survival after Hematopoietic Cell Transplantation Using Machine Learning”, *Transplant Immunology*, Volume 90, May 2025