



Curriculum Vitae

1. Personal Information

Full Name: Emmanouil Konstantinou Manoutsoglou

Date of Birth: 19 November 1960

Place of Birth: Katerini, Greece

Marital Status: Married, one child

Address: School of Mineral Resources Engineering, Technical University of Crete,
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2. Education

1986–1990 – Doctorate (Dr. rer. nat.), Free University of Berlin, Germany.

Dissertation: “Tectonics and metamorphism of the Plattenkalk Series in Taygetos, Peloponnese, Greece.” Grade: Summa cum laude.

1982–1987 – Studies in Geology and Classical Archaeology, Free University of Berlin.

1978–1982 – Diplom in Geology, University of Patras, Greece. Grade: Very Good.

1973–1978 – Secondary School, Katerini, Greece.

3. Academic Career & Appointments

2011–present – Full Professor, School of Mineral Resources Engineering, Technical University of Crete (TUC).

2012–2013 – Deputy Chair, Department of Mineral Resources Engineering, TUC.

2013–2021 – Dean, School of Mineral Resources Engineering, TUC.

2007–2011 – Associate Professor, TUC.

2005–2007 – Assistant Professor, TUC.

2001–2005 – Tenure-track Assistant Professor, TUC.

1997–2001 – Lecturer (Law 407/80), TUC (Geology, Environmental Engineering).

1990–1997 – Lecturer, Institute of Geology, Free University of Berlin.

1987–1997 – Research Associate, Institute of Geology, Free University of Berlin.

4. Undergraduate Teaching (Technical University of Crete)

- General Geology (MOP 101): Fundamentals of Earth sciences, Earth's formation and structure, igneous, sedimentary and metamorphic rocks, geological cycles, tectonics, geomorphology, geology of Greece.

- Environmental Geology (MOP 121): Environmental impacts of geological processes, water and carbon cycles, geohazards, anthropogenic pressures, exercises with geological & topographic maps.

- Geology and Ore Deposits of Greece (MOP 208): Alpine cycle, stratigraphy and tectonics of the Hellenides, major ore deposits, field-based case studies.

- Geothermics (MOP 503): Geothermal exploration & utilization, geothermal fields of Greece and Europe, hydrothermal systems, geothermal fluids, environmental impact.

- Field Exercises I and IV (MOP 702, 708): Field mapping, structural geology, tectonic analysis, stratigraphic logging, integration of geological & geophysical data.

5. Supervision of Theses

Supervised more than 70 diploma theses, over 20 MSc theses, and 2 PhD dissertations (1 ongoing). Member of examination boards for 22 completed PhDs, 15 MScs, and more than 100 diploma theses.

6. Recent Funded Research Projects (2020–2025)

- 2023–2025: Spatial distribution of gypsum and anhydrite in the Altsi gypsum quarry (Sitia, Crete). Funded by INTERBETON S.A.

- 2023: Investigation and documentation of the petrified rhizolith forest in Chania. Funded by the Region of Crete.

- 2022–2023: Hydrogeochemical study of thermal and mineral springs in Crete for potential therapeutic use. Funded by the Region of Crete.

- 2020–2021: Research and technological documentation for the restoration and reuse of the Venetian Shipyards (“Neoria”) in Chania.
- 2020–2021: Development of cultural landscape networks in Sfakia Municipality.

7. Selected Recent Publications (2019–2025)

1. Kolovou, M., Potiriadis, C., Kallithrakas-Kontos, N., Manoutsoglou, E. & Giannopoulos, V. (2025). Radon measurements and occupational dose assessment in Greek tourist caves. The European Physical Journal Special Topics. <https://doi.org/10.1140/epjs/s11734-025-01537-8>
2. Manoutsoglou, E. (2025). Initial Discoveries from the Rhizoliths Petrified Forest of Chania. Heritage, 8(7), 242. <https://doi.org/10.3390/heritage8070242>
3. Manoutsoglou, E. (2025). The ‘treasure’ of aeolianites on the coastal front of Marathopoli Dialiskari, Messinia. Proc. 17th Int. Congress of the Geological Society of Greece, Mytilene, pp. 939-944.
4. Manoutsoglou, E., Andronikidis, N., Lazos, I., Kritikakis, G., Economou, N., Steiakakis, E., Xiroudakis, G. & Vafeidis, A. (2025). Monitoring sea water intrusion at Samaria Gorge National Park. Proc. 17th Int. Congress of the Geological Society of Greece, pp. 945-948.
5. Telemenis, D., Bellas, S., Vavouranakis, E. & Manoutsoglou, E. (2025). Source rock potentiality of the late Miocene sapropelic layers of Gavdos Island. Proc. 17th Int. Congress of the Geological Society of Greece, pp. 1436-1440.
6. Androkinidis, N., Lazos, I., Kritikakis, G., Manoutsoglou, E., Steiakakis, E. & Vafidis, A. (2024). 3D Electrical Tomography for Monitoring Sea Water Intrusion at Samaria Gorge. Proc. 12th Congress of the Balkan Geophysical Society. <https://doi.org/10.3997/2214-4609.202449BGS35>
7. Manoutsoglou, E. & Bei, E. (2024). Incipient Salinization: A Case Study of the Spring of Asclepieion in Lentas, Crete. Geosciences, 14(3), 56. <https://doi.org/10.3390/geosciences14030056>
8. Xiroudakis, G., Saratsis, G. & Manoutsoglou, E. (2024). The Smallest “Miner” of the Animal Kingdom. Mining, 4(2), 260-283. <https://doi.org/10.3390/mining4020016>
9. Manoutsoglou, E., Lazos, I., Steiakakis, E. & Vafeidis, A. (2022). The Geomorphological and Geological Structure of the Samaria Gorge, Crete, Greece. Applied Sciences, 12(20), 10670. <https://doi.org/10.3390/app122010670>
10. Manoutsoglou, E. et al. (2019). Comparative study of high- and low-temperature thermal waters in Greece. Hydrogeology Journal.

8. Main Research Interests

- Structural Geology and Tectonics
- Microtectonics and deformation mechanisms
- Stratigraphy and sedimentology
- Environmental geology and hydrogeology
- Mineral resources exploration
- Geothermal energy
- Fossilized rhizolith systems and their paleoenvironmental significance

9. Administrative Roles

- Dean, School of Mineral Resources Engineering, TUC (2013–2021).
- Deputy Chair, Department of Mineral Resources Engineering, TUC (2012–2013).
- Member of curriculum committees, research boards, and strategic planning bodies at TUC.

10. Editorial & Reviewing Activities

Reviewer for international journals and conferences in geology, tectonics, environmental sciences, and mineral resources. Evaluator of research proposals for European and national funding bodies. Member of editorial boards in geological journals.

11. Conferences & Scientific Activities

Participated in more than 100 international and national conferences. Organizer and chair of conferences including the 13th International Conference of the Geological Society of Greece (2013).

12. Social and Scientific Activity

Has been actively engaged in the dissemination of geological knowledge through public lectures, participation in scientific workshops, and collaborations with local authorities. Emphasis has been placed on highlighting the geological heritage of Crete, with initiatives for the protection and promotion of geosites, such as the Petrified Rhizolith Forest in Chania, as well as through collaborations with other scientific societies. This contribution has significantly strengthened the connection of geology with education, culture, and the local community.