

CURRICULUM VITAE OF
MARIA GERAGA
Assistant Professor

CONTACT INFORMATION

Address: Laboratory of Marine Geology and Physical Oceanography, Dept.
of Geology, University of Patras, 26504 Rio, Greece
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EDUCATION

1993: B.Sc. in Geology (4 year study course). Department of Geology, University of Patras, Greece
2000: Ph.D. Department of Geology, University of Patras. Title of thesis: "Evaluation of palaeoceanographic and palaeoclimatic changes during Holocene in SW Aegean Sea (Greece) and the formation of the sapropels".

SCHOLARSHIPS

(a) 11/1992-1/1993: Scholarship of "Erasmus"
(b) 1994-1998: State Scholarship Foundation of Greece scholarship for Doctorate thesis (awarded after examinations).
(c) 2000-2002: State Scholarship Foundation of Greece scholarship for Post Doctorate Research scholarship from the Patras University
(b) 2/2000-12/2000: Scholarship of "INTERREG II" (Greece- Italy)

EMPLOYMENT

1993-today: Research Associate: Laboratory of Marine Geology and Physical Oceanography, Department of Geology, University of Patras.
2000-2006: Ass. Professor in Polytechnics (Higher Educational Technological Institute) of Mesolonghi, Greece.
2002-2006: Part time Lecturer, in Department of Geology, University of Patras, Greece
2006-2012: Lecturer in the Department of Geology, University of Patras, Greece
2012-today: Assistant Professor in the Department of Geology, University of Patras, Greece

PUBLICATIONS

- Eighteen (18) publications in journals of Science Citation Index (*)
- Five (5) publications in Scientific journals and special publications
- Thirty three (33) publications (full-length papers) in Proceedings of International and National Conferences

PUBLICATIONS IN SCIENTIFIC JOURNALS

1. ***Geraga M.**, Tsaila-Monopoli St., Ioakim Ch., Papatheodorou G., and Ferentinos G. (2000): "An evaluation of paleoenvironmental changes during the last 18000 yrs BP in the Myrtoon Basin, S.W. Aegean Sea". *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 156, pp. 1-17.
2. *Casford J.S.L., Abu-Zied R., Rohling E.J., Cooke S., Boessenkool K.P., Brinkhuis H., De Vries C., Wefer G., **Geraga M.**, Papatheodorou G., Croudace I., Thomson J. and Lykousis

- V. (2001): “Mediterranean climate variability during the Holocene”. *Mediterranean Marine Science*, vol. 2/1, pp. 45-55.
3. *Ravasopoulos, J., G. Papatheodorou, J. Kapos, **M. Geraga**, A. Koliadima and K. Xenos. (2002): “A promising methodology for the detection of pockmark activation in nearshore sediments, Gulf of Patras (W. Greece)”. *Instrumentation Science and Technology*, vol. 30, 2, pp. 139-155.
 4. *Papatheodorou G., Hotos G., **Geraga M.**, Avramidou D. and Vorinakis T. (2002): “Heavy metal concentrations in sediments of Klisova lagoon (S.E. Mesolonghi-Aitolikon Lagoon complex), W. Greece”. *Fresenius Environmental Bulletin*, vol. 11, No 11, pp. 951-956.
 5. *Papatheodorou, G., **Geraga, M.**, Ferentinos, G., (2005): The Navarino Naval Battle site, Greece – an integrated remote sensing survey and a rational management approach. *International Journal of Nautical Archaeology*, vol. 34, No 1. 95-109.
 6. ***Geraga, M.**, Tsaila-Monopolis, S., Ioakim, C., Papatheodorou, G., Ferentinos, G., (2005). Short-term climate changes in the southern Aegean Sea over the last 48,000 years. *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 220, 311-332.
 7. *Etiopé, G., Papatheodorou, G, Christodoulou, D., **Geraga, M.**, Favali, P. (2006): The geological links of the ancient Delphic Oracle (Greece): A reappraisal of natural gas occurrence and origin. *Geology*, vol. 34, no. 10, p. 821-824.
 8. *Papaefthymiou, H., G. Papatheodorou, A. Moustakli, D. Christodoulou and **M. Geraga** (2007): Natural radionuclides and ¹³⁷Cs distributions and their relationship with sedimentological processes in Patras Harbour, Greece. *Journal of Environmental Radioactivity*, vol. 94, pp. 55-74.
 9. Chalari, A., Christodoulou, D., Papatheodorou, G., **Geraga, M.**, Stefatos, A., Ferentinos, G. (2008): Use of remote sensing and GIS in the reconstruction of coastal palaeogeography of Alexandria, Egypt, In: Y. Facorellis, N. Zacharias, K. Pol krete (eds), *British Archaeological Reports (BAR) International Series*, 1746, ISBN 978 1 4073 01884, pp. 119-128.
 10. Papatheodorou, G., **Geraga, M.**, Ferentinos G. (2008): The study of coastal palaeogeography of Dokos Island, Greece, using remote sensing techniques. In: Y. Facorellis, N. Zacharias, K. Pol krete (eds), *British Archaeological Reports (BAR) International Series*, 1746, ISBN 978 1 4073 01884, pp. 65-71.
 11. ***Geraga, M.**, Mylona, G., Tsaila-Monopoli St., Papatheodorou, G., Ferentinos, G. (2008): Northeastern Ionian Sea: Palaeoceanographic variability over the last 22 ka. *Journal of Marine Systems*, vol. 74 pp.623-638.
 12. Papatheodorou G., Fakiris, E., **Geraga M.**, Ferentinos G., Koutsikopoulos C. (2008): Ghostly Images of HMHS Britannic. *Hydro International*, vol. 12 pp.16-19.
 13. *Georgiadis M., Papatheodorou G., Tzanatos E., **Geraga, M.**, Ramfos, A., Koutsikopoulos C., Ferentinos G. (2009): Coralligène formations in the eastern Mediterranean Sea: Morphology, distribution, mapping and relation to fisheries in the southern Aegean Sea (Greece) based on high-resolution acoustics. *Journal of Experimental Marine Biology and Ecology*, vol. 368 pp.44-58.
 14. *Chalari, A., G. Papatheodorou, M., **Geraga, D.** Christodoulou G. Ferentinos (2009): A marine geophysical survey illustrates Alexandria’s Hellenistic past. *Zeitschrift fur Geomorphologie*, vol. 53 pp.191-212.
 15. ***Geraga, M.**, Ioakim, Chr., Lykousis, V., Tsaila-Monopolis, St., Mylona, G., (2010): The high-resolution palaeoclimatic and palaeoceanographic history of the last 24,000 years in the central Aegean Sea, Greece *Palaeogeography, Palaeoclimatology, Palaeoecology*, vol. 287 pp.101–115.
 16. *Papaefthymiou, H, Papatheodorou, G., Christodoulou, D., **Geraga, M.**, Moustakli, A., and J. Kapos (2010): Elemental concentrations in sediments of the Patras Harbour, Greece, using INAA, ICP-MS and AAS. *Microchemical Journal*, vol. 96 (2) pp.269-276.

17. *Ferentinos, G., Papatheodorou, G., **Geraga, M.**, Iatrou, M., Fakirs, E., Christodoulou, D., Dimitriou, E., Koutsikopoulos, C. (2010): Fjord water circulation patterns and dysoxic/anoxic conditions in a Mediterranean semi-enclosed embayment in the Amvrakikos Gulf, Greece *Estuarine, Coastal and Shelf Science*, vol. 88 (4) pp.473-481.
18. *Kiparissis S., Fakiris E., Papatheodorou, G., **Geraga M.**, Kornaros M., Kapareliotis A., Ferentinos G. (2011): Illegal trawling and induced invasive algal spread as collaborative factors in a *Posidonia oceanica* meadow degradation. *Biological Invasions*, vol. 13 (3) pp.669-678.
19. *Kordella, S., **M. Geraga**, G. Papatheodorou, E. Fakiris and I.M. Mitropoulou (2012): Litter composition and source contribution for 80 beaches in Greece, Eastern Mediterranean: A nationwide voluntary clean-up campaign. *Aquatic Ecosystem Health and Management*, in press
20. *Ferentinos, G., M. Gkioni, M. **Geraga**, G. Papatheodorou (2012): Early seafaring activity in the Southern Ionian Islands, Mediterranean Sea. *Journal of Archaeological Science*, in press
21. *Avramidis, P., **Geraga, M.**, Lazarova, M, Kontopoulos, N. (2012): Holocene record of environmental changes and palaeoclimatic implications in Alykes lagoon, Zakynthos Island, western Greece, Mediterranean Sea. *Quaternary International*, in press.

PAPERS IN SPECIAL PUBLICATIONS

22. **Papatheodorou G., Christodoulou D., Geraga M., Etiope G., Ferentinos G.** (2007): "The pockmark field of the Gulf of Patras: An ideal natural laboratory for studying seabed fluid flow" In: Zelilidis, A., Papatheodorou, G. and Geraga, M. (eds.): "*Sedimentology of western and central Greece from recent to Triassic*". 25th IAS Meeting of Sedimentology, Patras, 2007, Field Trip Guidebook, p. 43-62.
23. **Ferentinos, G., Gkioni, M., Geraga M.** (2011): Sea-level changes from the Middle Palaeolithic to the Early Neolithic and their Implications on the colonization of the Ionian Islands, western Greece. In *Stable Places and Changing Perceptions: Cave Archaeology in Greece and Adjacent Areas*. Monograph of the Danish Institute at Athens. (Eds) F. Mavridis and Jesper Tae Jensen (*in press*).

INTERNATIONAL CONFERENCE PROCEEDINGS (SELECTED)

1. Geraga M., Tsaila S., Papatheodorou G., Ferentinos G and Ioakim C. (2001): "The use of R-mode factor analysis in the study of palaeoclimatic and palaeoceanography changes in SW Aegean Sea, Greece". Proceedings of Conference of International Association for Mathematical Geology (IAMG) Mexico, Cancun (in CD-ROM format).
2. George Papatheodorou, Athina Chalari, Maria Geraga, Aristofanis Stefatos, Aris Paleokrasas, Dimitris Christodoulou and George Ferentinos (2001): "A Marine Archaeological reconnaissance survey in Alexandria (Cape Lochias), Egypt, using remote sensing technology". In Proceedings of International Symposium "Extraordinary Machines and Structures in Antiquity", Ancient Olympia, Greece, 19-24 August 2001, pp. 266-270.
3. Chalari, D. Christodoulou, G. Papatheodorou, M. Geraga, and G. Ferentinos (2003): "Marine Geophysical Investigation around the Site of the Famous Pharos of Alexandria (Egypt) for the Detection of Ancient Shipwrecks. (Preliminary Results)". 2nd World Congress. Ancient Greece "The Modern World", Ancient Olympia (International Olympic Academy), 12-17 July 2002, pp. 62-73.
4. Ioakim, C., Tsaila-Monopolis, St., Geraga M., Papatheodorou, G., Ferentinos, G. (2004): Dinoflagellate assemblages in Late Pleistocene-Holocene deep-water sediments of the Southern Aegean Sea (Greece): evidence of the evolution of palaeoclimate and palaeoceanography. In

the Proceedings of the 5th International Symposium on Eastern Mediterranean Geology, Thessaloniki, Greece, 14-20 April 2004, p. 1349-1352.

5. Kordella, S., G. Papatheodorou, M. Geraga, E. Fakiris, A. Mitropoulou. (2010) Beach litter composition and source identification for 80 beaches in Greece. 39th CIESM Proceedings, Venice, Italy 10-14 May 2010, Rapp. Comm. Int. Mer. Medit 39, p. 764.

6. Iatrou, M., G. Papatheodorou, M. Geraga, G. Ferentinos (2010) Submarine bauxitic tailings disposal: A case study in Corinth Gulf, Central Greece. 39th CIESM Proceedings, Venice, Italy 10-14 May 2010, Rapp. Comm. Int. Mer. Medit 39, p. 260.

7. Thomopoulos, K., Geraga M., Fakiris E., Papatheodorou G., Ferentinos G. (2010). Palaeoclimatic and palaeoceanographic evolution of the Mediterranean Sea over the last 18ka. Bulletin of the Geological Society of Greece, 2010 Proceedings of the 12th International Congress, Patras, May, 2010, XLIII, vol. 2, pp. 1064-1073.

8. Iatrou M., Papatheodorou G., Geraga M., Ferentinos G. (2010). The study of heavy metal concentrations in the red mud deposits at the Gulf of Corinth, using multivariate techniques. Bulletin of the Geological Society of Greece, 2010 Proceedings of the 12th International Congress, Patras, May, 2010, XLIII, vol. 2, pp. 1018-1028.

9. Papatheodorou, G., Geraga, M., Chalari, A., Christodoulou, D., Iatrou, M., Fakiris, E., Kordella, S., Prevenios, M., Ferentinos, G. (2011). Remote sensing for underwater archaeology: Case studies from Greece and Eastern Mediterranean Sea. Bulletin of the Geological Society of Greece vol. XXXXII, 2011 (in press).

10. Papatheodorou G., Christodoulou D., Etiope G., Geraga M., Ferentinos G., Kordella S. (2011). Seabed Fluid Flows in Ionian Sea and Western Greece: Indicators of petroleum and natural gas reservoirs. In Book "Aegean and South-East Mediterranean Sea" (in press)-

11. Papatheodorou G., Geraga M., Chalari A., Stefatos A., Cristodoulou D. and G. Ferentinos (2011): "Remote sensing in Underwater Archaeology: Case studies from Greece and Alexandria (Egypt)". Proceedings of 8th International Symposium on ship construction in Antiquity, Hydra 28-30 August 2002. (in press).

CITATIONS

Over of 140 citations in Journals of Science Citation Index

ADDITIONAL EXPERIENCE (Professional expeditions – Field surveys)

A great amount of practical field as well as laboratory experience has been obtained over marine geophysical/geotechnical projects carried out by the Lab. of Marine Geology & Physical Oceanography. The studies for these projects included interpretation of geophysical and geotechnical data and slope stability analysis and presentation of data (technical reports). Some of the most important activities in which I have been involved are outlined below:

7-8/1993: Oceanographic/geophysical/geotechnical survey for the laying of a submarine telecommunication cable between Igoumenitsa and Corfu island (founded by the Greek Telecommunication Company-FULGOR-AKTI ENGINEERING).

8/1993: Oceanographic/geophysical/geotechnical survey for the laying of a submarine telecommunication cable between Patras and Krioneri (founded by the Greek Telecommunication Company- FULGOR - AKTI ENGINEERING).

8/1993: Preliminary bathymetric and geological survey for the laying of the Patras sewage submarine outfall (founded by the Water and Sewage Authorities of Patras).

9/1993: Oceanographic survey in the SE Patras Gulf for the design and construction of the new Patras port (founded by TRITON Technical Company).

10/1993: Oceanographic/geophysical/geotechnical survey for the laying of a submarine telecommunication cable between Preveza-Paxi-Corfu island (founded by the Greek

Telecommunication Company - FULGOR - AKTI ENGINEERING).

11/1993: Marine geophysical survey between Kos and Giali islands for the detection of submarine power cable damage (founded by the Public Power Corporation of Greece).

7-8/1993: Oceanographic/geophysical/geotechnical survey for the laying of a submarine telecommunication cable between Igoumenitsa and Corfu island (founded by the Greek Telecommunication Company- FULGOR- AKTI ENGINEERING).

8/1993: Oceanographic/geophysical/geotechnical survey for the laying of a submarine telecommunication cable between Patras and Krioneri (founded by the Greek Telecommunication Company - FULGOR - AKTI ENGINEERING).

8/1993: Preliminary bathymetric and geological survey for the laying of the Patras sewage submarine outfall (founded by the Water and Sewage Authorities of Patras).

9/1993: Oceanographic survey in the SE Patras Gulf for the design and construction of the new Patras port (founded by TRITON Technical Company).

10/1993: Oceanographic/geophysical/geotechnical survey for the laying of a submarine telecommunication cable between Preveza-Paxi-Corfu island (founded by the Greek Telecommunication Company - FULGOR - AKTI ENGINEERING).

11/1993: Marine geophysical survey between Kos and Giali islands for the detection of submarine power cable damage (founded by the Public Power Corporation of Greece).

10/1998: Geophysical survey for the laying of Patras sewage submarine outfall (founded by EDAFOMICHANIKI E.P.E).

3-5/1999: Italy-Greece HVAC Power interconnection. Greek continental shelf marine survey (founded by the Public Power Corporation of Greece).

6/2000: Zante-Kyllini (Peloponnesos) HVAC Power interconnection. Oceanographic /geophysical/ geotechnical survey for the laying of a submarine power cable.

2002: «A marine geophysical survey for the detection of ancient wrecks and man-made structures in the site of Pharos of Alexandria, Egypt" (July 2002) Report submitted to CENTRES d ETUDES ALEXANDRINES - CNRS (FRANCE).

2003: " arine geophysical/geotechnical survey for the laying of submarine power cables between Kerkyra island and Aetos area (Greek mainland) "Technical Report for Public Power Corporation.

2004: ASSEM project (Array of Sensors for long-term Seabed Monitoring of geohazards) (contract no. EVK3-2001-00038).

2005-2008: Marine geophysical, geochemical survey and monitoring of the Patras Gulf pockmark field. Ministry of National Education and Religious Affairs of Greece (Project Pythagoras II).

2008: Marine geophysical survey at the South Evoikos Gulf. GuD Geotechnik und Dynamik GmbH.

2008: Habitat mapping in Zante Island (Gulf of Lagana). Interreg III A, Greece-Italy, Governance of Water, G.O.W).

2009-2011: Environmental study of Pamvotida lake (Ioannina). Detection of targets (megalitter) (founded by Ioannina Prefecture)

2009-2012: HYPOX project, FP7 EU funding. (EC Grant 226126, ENV.2008.4.1.2.1, FP7).

2011-2012: Marine geological/geophysical investigations of the seafloor for the identification of geological and man-made hazards prior to the laying of telecommunication cables between Elafonisos and Kithira Isl., Greece. (founded by Akti Engineering Co.

2011-2014: Palaeogeographic evolution of the coastal zone at rich archaeological sites: ancient harbour of Kyllini/Glarentza (NW Peloponnese, Greece) and Modi islet (Poros island). (founded by Social funds: Program C. Carathéodory)