



CURRICULUM VITAE

1. Surname:	MATTAS
2. Name:	CHRISTOS
3. Occupation:	GEOLOGIST
4. Birth Date:	21/9/1976
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Education

Bachelor (2000), School of Geology A.U.TH.
MSc on Applied and Environmental Geology (2003), School of Geology A.U.TH.
PhD on Hydrogeology (2009), School of Geology A.U.TH.

Languages: English

Working experience

2004-2006 Free Lancer Geologist

2007-2014 Aristotle University Staff

2014-present Laboratory Teaching Staff in Aristotle University

Since my appointment in Aristotle University I teach the following laboratory courses: Hydrogeology, Groundwater Resources Exploration and Exploitation, Engineering Geology and field courses related to these topics. I have also participated in the teaching of laboratory courses in Geology of Greece and Geotectonic Evolution of Greece. I teach at the Masters Program entitled Applied and Environmental Geology. I have supervised 4 bachelor diploma theses and member of the examining committee of three masters. I am member of the Internal Evaluation Team of the School of Geology (OMEA).

Participation in Projects:

I have participated as an employee in the following projects

- EWA-BELT project. H2020. (2021-present)
- Joint Cross Border Cooperation for Securing Societies against Natural and Man-Made Disasters (J-CROSS)" funded by Interreg IPA Cross border Cooperation Programme Greece - Republic of North Macedonia 2014-2020" (2020)
- ERASMUS+ (KA2). Interuniversity Learning in Higher Education on Advanced land Management-Egyptian Country/ ILHAM-EC» (2016-2018).
- Erasmus + (KA2). «Master in agricultural and hydrological approaches to a better sustainable development» (2018-2021).
- Hydrological assessment for the watercourses for the detail engineering services for section 2 and 3 and 3 Greece of the EPC Onshore Pipeline Construction of the Trans Adriatic Pipeline. (2016-2018)
- Participation in the Project: Detail Engineering Services for Sections 2&3 in Greece of the EPC Onshore Pipeline Construction of the Trans Adriatic Pipeline (TAP) (Performed by C&M Engineering S.A.). Owner: TRANS ADRIATIC PIPELINE (TAP) AG. Period: 3/2016 – 11/2017.

- Local Pipeline Engineering Services for the Greece West Section of the Trans Adriatic Pipeline (TAP) Project as subcontractor of E.ON New Build & Technology GmbH (Performed by C&M Engineering S.A.). Period: 12/2012 – 01/2014
- Investigation of the sensitivity of groundwater and surface water to pollution and vulnerability assessment to erosion and floods (discharges and velocities of water) (2013)
- Suitability research of "Vartos" area, Eleonas village, Municipality of Amfissa, as Sanitary Landfill (2009-2010)
- Investigation of the reasons that cause fractures in the Anargyroi area (2008-2010)
- Investigation for the construction of a dam in the Paleokastro Ellassona area. (2007-2008)
- Implementation of artificial recharge in Larissa area (2007-2008)
- Water flow measures and hydrogeological researches at the upper flow region of Sarantaporos river and Milia Ioanninon area. (2008)
- Hydrogeological research for the construction of dam in the Domokos-Narthaki area (2001-2002)
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Additional Activities-Skills:

- Member of the Organizing Committee of the 10th International Hydrogeological Congress in Greece (2014)
- Co-Editor of the Proceeding of the 10th International Hydrogeological Congress in Greece (2014)
- Good command of Word, Excel, Powerpoint, ArcGIS, GMS, SPSS, Aquachem, Coreldraw, HEC-RAs.

Publications-Conference Proceedings-Book Chapters:

1. C. Mattas, G. Soulios, A. Panagopoulos, K. Voudouris, A. Panoras (2007): "Hydrochemical characteristics of the Gallikos river water, Prefecture of Kilkis, Greece". Global Nest Journal, vol 9, No 3, pp. 251-258.
2. C. Mattas, G. Soulios (2011): "Hydrogeological conditions of the upper part of Gallikos river basin. Advances in the Research of Aquatic Environment, Volume I, pp. 331-338, Springer.
3. G. Soulios, Th. Tsapanos, K. Voudouris, T. Kaklis, Ch. Mattas, M. Sotiriadis (2011): "Ruptures on surface and buildings due to land subsidence in Anargyri village (Florina Prefecture, Macedonia). Advances in the Research of Aquatic Environment, Volume II, pp. 505-512, Springer.
4. Chatzistathis T., C. Mattas, D. Alifragis, I. Therios, (2012). Gneiss, Schist: Mineralogical Composition, Uses, Hydrogeological Consideration, Properties of Soils Originated from Gneiss, Schist Parent Materials, and Plants' Mineral Nutrition on Gneiss, Schist Soils. Horizons in Earth Science Research. Volume 8, pp. 163-176, Editors: Benjamin Veress and Jozsi Szigethy, ISBN: 978-1-61942-933-8, Nova publishers.
5. Soulios G., Karacostas Th., Kilmpasanis A., Mattas Ch., (2012): The evolution of precipitation in Greece during the last 50 years, Proc. of Protection and Restoration of the Environment XI, pp. 176-183, Thessaloniki, 2012.
6. Soulios G., Mattas C., Kaklis T., Sotiriadis M., Voudouris K., Dimopoulos G. (2013): Is the construction of a sanitary landfill acceptable in a karstic area? The case of the sanitary landfill site in Fokida, central Greece. 13th International Congress of the Geological Society of Greece, 5-8 Sept 2013.
7. Pavlou A., Soulios G., Dimopoulos G., Tsokas G., Mattas C., Kazakis N., Voudouris K. (2013): Groundwater quality of the coastal aquifers in the eastern part of Thermaikos gulf (from Aggelochori to Kallikrateia). 13th International Congress of the Geological Society of Greece, 5-8 Sept 2013.

8. Christos Mattas, Konstantinos S. Voudouris, and Andreas Panagopoulos (2014). Integrated Groundwater Resources Management Using the DPSIR Approach in a GIS Environment: A Case Study from the Gallikos River Basin, North Greece. *Water* 2014, 6, 1043-1068; doi:10.3390/w6041043
9. Mattas C., Kazakis N. and Soulios G (2014). Groundwater vulnerability and risk assessment using DRASTIC model in a GIS environment. A case study from the Gallikos river basin, northern Greece. 10th International Hydrogeological Congress of Greece / Thessaloniki, 2014, v.1, 457-466.
10. Mattas C., Papachristou M. and Soulios G.(2014). Assessment of groundwater quality characteristics from the upper part of Gallikos river basin (N. Greece) using factor and cluster analysis methods. 10th International Hydrogeological Congress of Greece / Thessaloniki, 2014, v.1, 467-476.
11. Kourliti E., Georgiadis K., Gani M.A., Apostolidou A., Stefanidou A., Anagnostou F., Albanakis K., Lazaridou M. and Mattas C. Ecological status of Gallikos river basin (Northern Greece). 10th International Hydrogeological Congress of Greece / Thessaloniki, 2014, v.1, 355-366.
12. P. Venetsanou, K. Voudouris, N. Kazakis and C. Mattas (2015). Impacts of urbanization, agriculture and touristic development on groundwater resources in the eastern part of Thermaikos Gulf (North Greece): An application of DPSIR model for sustainable development. *European Water* 51:3-13.
13. Mattas Ch., Kaklis T., Devlioti K. and Vouvalidis K. (2016). Groundwater qualitative characteristics of Mygdonia basin. Investigation of the pollution sources and suitability for human use. *Bulletin of the Geological Society of Greece*, vol. L, p. 854-864, Proceedings of the 14th International Congress, Thessaloniki, May 2016
14. Tsitroulis, I., Voudouris, K., Vasileiou, A., Mattas, C., Sapountzis, M., & Maris, F. (2016). Flood hazard assessment and delimitation of the likely flood hazard zones of the upper part in Gallikos river basin. *Bulletin of the Geological Society of Greece*, 50(2), 995-1005. doi:<http://dx.doi.org/10.12681/bgsg.11804>
15. Kazakis N., Mattas C., Pavlou A., Patrikaki O., Voudouris K.(2017). Multivariate statistical analysis for the assessment of groundwater quality under different hydrogeological regimes. *Environ Earth Sci*, 76:349 DOI 10.1007/s12665-017-6665-y.
16. Venetsanou P., Papadopoulos E., Mattas C. (2017). Preliminary results from the hydrogeological investigation of the coastal aquifer of the Havrias basin (Halkidiki, Northern Greece): The application of the SWOT analysis. 11th INTERNATIONAL HYDROGEOLOGICAL CONGRESS, Volume 2, p. 513-522.
17. Tizro A.T., Voudouris K., Mattas C., Kamali M., Rabanifar M. (2018) Evaluation of Irrigation Efficiency Effect on Groundwater Level Variation by Modflow and Weap Models: A Case Study from Tuyserkan Plain, Hamedan, Iran. In: Mattas K., Baourakis G., Zopounidis C. (eds) *Sustainable Agriculture and Food Security. Cooperative Management*. Springer, Cham, https://doi.org/10.1007/978-3-319-77122-9_9, 978-3-319-77121-2.
18. Soulios G., Stournaras G., Nikas K., Mattas C. (2018), The floods in Greece: the case of Mandra in Attica. *Bulletin Geological Society of Greece*, 52, 131-144.
19. Fouda S., Mattas C., Georgiou P. (2018). Partial Replacement of Mineral-N Fertilizer Using Compost and Biochar to Improve Growth and Yield of Peanut (*Arachis hypogaea* L.) Grown on a Sandy Loam Soil. *Agricultural Economics Review* 2018, Vol 19, No 2, p.67-80.
20. Mattas C., Anagnostopoulou C, Venetsanou P., Bilas G., and Lazoglou G. (2019). Evaluation of Extreme Dry and Wet Conditions Using Climate and

Hydrological Indices in the Upper Part of the Gallikos River Basin
Proceedings 2019, 7, 3; doi:10.3390/ECWS-3-05823.

21. Voudouris K., Mattas C., Kaklis T., Kazakis, N. et al. (2019): Lateral mobility and vertical scour assessment at a pipeline's crossing point with rivers/torrents. Proc. of 2nd International Conference on Natural Hazards & Infrastructure, 23-26 June, 2019, Chania, Greece, ID_165, pp. 1-12.
22. Mattas, C., Veranis, N., Soulios, G., & Kaklis, T. (2020). Statistical approach of groundwater quality assessment at Almopia basin, Macedonia, North Greece. Bulletin of the Geological Society of Greece, 56(1), 204-222. doi:<https://doi.org/10.12681/bgsg.23487>