

CURRICULUM VITAE

1. Personal data

Name: Andronikidis Nikos
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Date of birth: 1st November 1970
Place of birth: Ptolemaida, Greece.
Nationality: Greek
Army duties fulfilled: 1999-2001 Greek Air Force
Family status: Married with three kids

2. Education

2019 Phd. in Laboratory of Ore Processing, Environmental Geotechnology Post-Graduate Program, School of Mineral Resources Engineering, Technical University of Crete, Greece.
1998 M.Sc. in Laboratory of Ore Processing, Environmental Geotechnology Post-Graduate Program, Department of Mineral Resources Engineering, Technical University of Crete, Greece.
1995 B. Sc. of Engineer from the Department of Mineral Resources Engineering, Technical University of Crete, Greece.

3. Honors

1992 - 1993 Scholarship - Technical University of Crete, for B. Sc
1997 Scholarship - Technical University of Crete, Greece, for M. Sc.

4. Scientific community services

Conferences

2013 – Organizing committee of the 13th International Conference of the Greek Geological Society.

2015 – Organizing committee of the 8th Conference of Balkan Geophysical Society.

5. Professional and scientific experience

5A. Academic experience

- 11/2001 to 6/2006: Researcher at the Applied Geophysics Lab. of the Mineral Resources Engineering Department, under six month's sequential contracts.
- 4/2007: Visiting researcher at the University of Bochum, Germany, for seismological data processing, Professor Meier, T.
- 9/2006 until now: At Technical University of Crete as “Specific Technical and Laboratory Personnel” (STLP) for the Applied Geophysics Lab.

5B. *On – going R&D activities (16)*

Participation in the projects below mainly includes partial involvement in initial proposal, geophysical measurements and preparation of the corresponding technical reports or deliverables

1. Geophysical survey at the ancient city of Itanos, Lasithi, Crete, Greece (2001). Funded by the French Archaeological School of Athens. PI: A.Vafidis.
2. Passive and active seismics in Western and Central Crete, Greece (1998 – 2006). Funded by the German Science Foundation. PI: H-P Harjes.
3. Artificial lakes in West Crete: Geophysical survey at Kountoura. Funded by the Pelekanos Municipality (2003-2004). PI: A. Vafidis.
4. Geophysical research for the delineation of the ground water table at Herakleion, Crete (2003). Funded by EPAN (SMILES). PI: A. Vafidis.
5. Hybrid Geophysical technology for the Evaluation of Insidious contaminated Areas (HYGEIA) (2001-2005). Funded by the European Union. PI: A. Vafidis.
6. Groundwater management and protection from saline water intrusion (2004 – 2005). Funded by the General Secretariat of Research and Development, Greece. PI: A. Vafidis.
7. Hybrid geophysical survey for imaging the saline water front at Stilos, Chania Prefecture, Greece (2005-2006). Funded by the Ministry of Education. PI: A. Vafidis.
8. “Geophysical survey on the E65 national road, Greece”. Applied Geophysics Lab and ISTRIA Ltd. (8/3/2006-7/4/2006). PI: A. Vafidis.
9. Geophysical survey on Ionian national road, Greece”. Applied Geophysics Lab and ISTRIA Ltd. (2/7/2007-31/8/2007). PI: A. Vafidis.
10. “Geophysical survey on the E55 national road Greece”. Applied Geophysics Lab and ISTRIA Ltd. (20/5/2008-20/12/2008). PI: A. Vafidis.
11. “Geophysical survey at coastal areas on Crete and nearby small islands”,. LIFE+ Nature project “Actions for the conservation of coastal dunes with Juniperus spp. in Crete and the South Aegean (Greece)”, known as JUNICOAST, LIFE07NAT/GR/000296. Applied Geophysics Lab. Is a subcontractor of MAICH (1/5/2009-30/6/2010). PI: A. Vafidis..
12. “Geophysical survey at Mallia, Crete, Greece”, Applied Geophysics Lab and ISTRIA Ltd. (1/7/2011-30/10/2011). PI: A. Vafidis.
13. “Geotechnical evaluation of carbonates at the Electrical Company of Greece mines”, Geomechanics Lab and Applied Geophysics Lab of TUC (7/2012-3/2013). PI: Z. Agioutantis.
14. “geophysiCaL basEd hydrogeologicAL modeling to pRevent pollution from sea WATER intrusion at coastal areas- CLEARWATER”, BLACK SEA ERA.NET. Technical University of Crete, Chania, Ankara University, Ankara and Greifswald University, Greifswald (1/2/2012-30/1/2015). PI: A. Vafidis.
15. THALIS, Hellenic Republic, Ministry of Education and Religious Affairs, funded by ESPA. Acronym: GEOCHARACTERIZATION. Cooperation of TUC, NTUA, ITSAK, TEI-Crete and IMS-FORTH (1/2/2012 – 30/9/2015). PI: A. Vafidis.
16. “Geophysical investigation using electrical tomography at the Loutsia-Remeri quarry”. Funded by TITAN cements ltd. Applied Geophysics Lab. (8/2012-11/2012). PI: A. Vafidis.

17. “Additional works for the delineation of the Omalos polje dam, including the environmental effects estimation due to its construction”. Municipality of Innachorion and Technical University of Crete. PI: A. Vafidis (7/2012-10/2012).

6. Teaching experience

- Support of:
2 MSc thesis, and more than 26 Graduate thesis until 2019.
- Tutor: Teaching of exercises for the courses related to 1) seismics (2001-today), 2) near surface geophysical methods (1998-today). “Applied Geophysics I” (shallow and deep seismics – head and reflected seismic waves), “Applied Geophysics II” (near surface geophysics); courses under Dr. A. Vafidis. School of Mineral Resources Engineering, Technical University of Crete.
- Tutor: Teaching of exercises for the graduate courses “Seismic Imaging and well logging” related to Petroleum Engineering (PetEng), MSc program (2014-2015), courses under Dr. A. Vafidis. School of Mineral Resources Engineering, Technical University of Crete.
- Participation in all field works related to students exercises every year from 2001 until today. Field works mainly included integrated geophysical surveys for the detection of buried antiquities, mapping of saltwater intrusion at coastal areas and detection of dolines, caves, fractures and weak zones in karstic limestones. These field works are implemented once a year under the frame of the lesson “Field work IV” of the School of Mineral Resources Engineering.

7. Academic work

7A. Thesis (3)

1. Evaluation of coal drillings from the areas of Lofos-Florina and Domenico-Elassonas”, **Diploma thesis**, Mineral Resources Engineering, Technical University of Crete, Greece, Chania 1995. Supervisor: A. Foscolos.
2. “Investigation of lignite concentration production with selective size reduction and heavy liquid methods.”, **MSc thesis** in the Environmental Geotechnology Post-Graduate Program, Department of Mineral Resources Engineering, Technical University of Crete, Greece, Chania 1998. Supervisor: K. Kavouridis.
3. “Seismic processing and interpretation of marine seismic reflection data for seismic line AEG-1, south Aegean region..”, **PhD** in the Environmental Geotechnology Post-Graduate Program, Department of Mineral Resources Engineering, Technical University of Crete, Greece, Chania. Supervisor: A. Vafidis.

7B. Published work - Scientific journals (7)

- 1) Hamdan, H., Kritikakis, G., **Andronikidis**, N., Economou, N., Manoutsoglou E. and Vafidis, A., 2010, Integrated geophysical methods for imaging saline karst aquifers. A case study of Stylos, Chania, Greece Journal of the Balkan Geophysical Society, 13, no. 1, 1-8.
- 2) Economou, N., Vafidis, A., Hamdan, H., Kritikakis G., **Andronikidis** N. and Dimitriadis, K., 2012, Time varying deconvolution of GPR data in civil engineering, Nondestructive Testing and Evaluation International, 27, 3, 285-292.

- 3) Hamdan, H., Economou, N., Kritikakis, G., **Andronikidis**, N., Manoutsoglou E., Vafidis, A., Pangratis, P. and Apostolidou, G., 2012, 2D and 3D imaging of the metamorphic carbonates at Omalos plateau/polje, Crete, Greece by employing independent and joint inversion on resistivity and seismic data, *Journal of Speleology*, 41, 2, 199-209.
- 4) Vafidis, A., **Andronikidis**, N., Economou, N., Panagopoulos, G., Zelilidis, A. and Manoutsoglou, E., 2012, Reprocessing and interpretation of seismic reflection data at Messara Basin, Crete, Greece, *Journal of the Balkan Geophysical Society*, 15, no 2, 31-40.
- 5) Hamdan, H., **Andronikidis**, N., Kritikakis, G., Economou, N., Agioutantis, Z., Schilizzi, P., Steiakakis, C., Papageorgiou, C., Tsourlos, P., Vargemezis, G. and Vafidis, A., 2014, Contribution of electrical tomography methods in geotechnical investigations at Mavropigi lignite open pit mine, Northern Greece, *Environmental Earth Sciences*, 72, 5, 1589-1598.
- 6) Vafidis, A., Soupios, P., Economou, N., Hamdan, H., **Andronikidis**, N., Kritikakis, G., Panagopoulos, G., Manoutsoglou, E., Steiakakis, E., Candansayar, E. and Schafmeister, M., 2014, Seawater intrusion imaging at Tybaki, Crete, Greece, using geophysical data and joint inversion of electrical and seismic data, *First Break*, 32, 8, 107 - 114.
- 7) **Andronikidis**, N., Kokinou, E., Vafidis, A., Kamberis, E. and Manoutsoglou, E., 2017, Deformation patterns in the southwestern part of the Mediterranean Ridge (South Matapan Trench, Western Greece), *Journal of Marine Geophysical Research*, in press.

7C. Published work - Conferences - proceedings

Asterisk (*) on my surname indicates that I presented the specific work and underlining indicates that I participated in the relevant conference.

7C. Articles at conferences and extended abstracts (20)

- 8) **Andronikidis***, N., Georgila, K., Economou, N., Manoutsoglou, E. and Vafidis, A., (2002), Geologic interpretation and mapping of seismic reflection data at Ano Vathia, Heraklion, Crete, Greece, *Proceedings of the 7th National Cartographic Conference, Island Cartography, Hellenic Cartographic Society, Mitilini, 23-26 October*, 451-460.
- 9) Vafidis, A., Manoutsoglou, E., **Andronikidis**, N., Hamdan, H., Koukadaki, M., Kritikakis, G., Economou, N. and Spanoudakis, N., (2004), Geophysical survey at the Omalos Plateau, Chania, Crete, *Proceedings of the 10th International Congress of the Hellenic Geological Society, 15 – 17 April, Thessaloniki, Greece*, 1204-1213.
- 10) Vafidis, A., Hamdan, H., **Andronikidis***, N., Dasyras, A., Kritikakis, G., Koukadaki, M., Koumakis, E., Lampathakis, S., Manoutsoglou, E., Economou, N., Papakonstantinou, K. and Spanoudakis, N., (2004), Contribution of electrical tomography and seismic refraction in site selection for a dam at Kountoura, Chania, Greece, *Proceedings of the 10th International Congress of the Hellenic Geological Society, 15 – 17 April, Thessaloniki, Greece*, 1214-1223.
- 11) Manoutsoglou, E., Vafidis, A., Kritikakis, G., Hamdan, H.A., **Andronikidis**, N., Spanoudakis, N.S. and Economou, N., (2004), Methods of 3D visual representation of interpreted geophysical data in regions of hydrogeological interest, *Proceedings of the 1st International Conference*

- «Advances in Mineral Resources Management and Environmental Geotechnology (AMIREG)», 7 – 9 June, Chania, Greece, pp. 709-714.
- 12) Kritikakis, G., Vafidis, A., Agioutantis, Z., **Andronikidis**, N. and Kanaris, D., (2009), Contribution of the Multichannel Analysis of Surface Waves (MASW) method in the geotechnical characterization of soils, Proceedings of the 3rd International Conference «Advances in Mineral Resources Management and Environmental Geotechnology (AMIREG)», 7 – 9 September, Athens, Greece.
 - 13) **Andronikidis***, N., Kritikakis, G., Papathanasiou, H., Vafidis, A., Panagopoulos G. and Manoutsoglou, E., (2010), Rock percentage estimation using P-wave tomography. A case study from Mochos, Heraklion, Greece, 16th European Meeting of Environmental and Engineering Geophysics, Extended Abstracts, P05.
 - 14) Economou N., Vafidis A., Hamdan H., Kritikakis G., **Andronikidis** N. and Dimitriadis K., (2011), Time varying deconvolution of GPR data in civil engineering, Conference of European Geosciences Union, General Assembly 2011, Session GI-6 Civil Engineering Applications of Ground Penetrating Radar, Vienna, Austria, 3-8 April [*invited paper by “Nondestructive Testing and Evaluation” for the Special Issue on “Civil Engineering Applications of Ground Penetrating Radar”*].
 - 15) Economou, N., Hamdan, H., Kritikakis, G., **Andronikidis**, N., Manoutsoglou, E. and Vafidis, A., (2011), Geoelectrical and seismic imaging of the Omalos plateau, Crete, Greece, 6th Congress of Balkan Geophysical Society, 3-6 October, Budapest, Hungary.
 - 16) **Andronikidis**, N., Kritikakis, G., Papathanasiou, H., Vafidis, A., Panagopoulos, G. and Manoutsoglou, E., (2012), Subsurface spatial data and their use in infrastructures, 12th National Cartographic Conference, Hellenic Cartographic Society, 10-12 October, Kozani, Greece
 - 17) Vafidis A., Steiakakis M., Agioutantis Z., **Andronikidis** N., Kritikakis G., Economou N., Pandi K., Spanoudakis N., Savvaidis A., Margaris B., Theodoulidis N., Lekidis V., Karakostas Ch., Mangriotis M-D., Kalogeras I., Koutrakis S., Rozos D., Loupasakis C., Rondoyanni Th., Tsangaratos P., Dikmen U., Papadopoulos N., Sarris A., Soupios P., Kokkinou E., Papadopoulos I., Kouli M. and Vallianatos F., (2013), “GEO-CHARACTERIZATION” of selected areas in Crete, Greece, towards realistic assessment of seismic design actions. Proceedings of the 13th International Congress of the Geological Society of Greece, Bulletin of the Geological Society of Greece, vol. XLVII, Pre-Congress Proceedings’ CD - Paper Number 326.
 - 18) Vafidis, A., **Andronikidis**, N., Hamdan, H., Kritikakis, G., Economou, N., Panagopoulos, G., Soupios, P., Steiakakis, E. and Manoutsoglou, E., (2013), The CLEARWATER project: preliminary results from the geophysical survey in Tympaki, Crete, Greece, EGE13, Chania.
 - 19) Vafidis, A. **Andronikidis**, N., Hamdan, H., Kritikakis, G., Economou, N., Panagopoulos, G., Zanettidis, S., Merziotis, D., Pateras, S., Nikofoarakis, E. and Blais, J.P., (2013), Rock characterization for the foundation of two water reservoirs using geophysical and borehole data, EGE2013, Chania.
 - 20) Vafidis, A., Hamdan, H., **Andronikidis**, N., Kritikakis, G. and Economou, N., (2013), Imaging of karstic carbonates using electrical resistivity data at

- Malia, Crete, Greece, 7th Congress of the Balkan Geophysical Society, Tirana, Albania.
- 21) Vafidis, A., Soupios, P., Kritikakis, G., **Andronikidis**, N., Economou, N., Hamdan, H., Manoutsoglou, E., Steiakakis, E., Candansayar, E., Schafmeister, M.T. and Kritsotakis, M., (2014), Salt Water Intrusion Imaging at Tybaki (Greece) Using Geophysical Methods, Near Surface Geoscience, 20th European Meeting of Environmental and Engineering Geophysics.
 - 22) Candansayar, M.E., Demirci, I., Vafidis, A., Soupios, P., Economou, N., **Andronikidis**, N. and Arslan, H., (2015), Two dimensional joint inversion of seismic refraction, radiomagnetotelluric and DC resistivity data: an example from Bafra plain, Turkey, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
 - 23) Vafidis, A., **Andronikidis***, N., Hamdan, H., Pylotis, I., Panagopoulos, G., Manoutsoglou, E., Kikidis, L. and Botos, N., (2015), Imaging of Alpine and Post-Alpine formations using ERT at Loutsas- Remeri open pit mine, Scourta, Viotia, Greece, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
 - 24) Spanoudakis N., Vafidis, A., Paganis, N., **Andronikidis**, N., Hatzidakis, and Niniou-Kindeli, V., (2015), Geophysical survey at the area of the ancient theater of Aptera, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
 - 25) Hamdan, H., Candansayar, E., Demirci, I., Economou, N., **Andronikidis**, N., Arslan, H., Soupios P. and Vafidis, A., (2015), Imaging the saline/fresh water interface at Bafra, Turkey using joint inversion of seismic refraction and ERT data, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
 - 26) **Andronikidis**, N., Kritikakis, G.S., Agioutantis, Z., Vafidis, A., Steiakakis, E., Papageorgiou, C., Schilizzi, C., Tsourlos, P. and Vargemezis, G., (2015), Mapping the bedrock using ERT for slope stability studies at Mavropigi lignite open pit mine, Northern Greece, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
 - 27) **Andronikidis**, N., Gialitaki, M., Mouchou, A., Kritikakis, G., Manoutsoglou, E. and Vafidis, A., (2015), Imaging Folegandros basin by using seismic reflection data from a part of seismic line AEG-1, 8th Congress of the Balkan Geophysical Society, Chania, Crete, Greece.
 - 28) Oikonomopoulos, K., Makrodimitras, G., Y.Bassias, Y., Vafidis, A., **Andronikidis**, N., Integration Of Geophysical Tools To Determine The Structural Setting Offshore South Of The Island Of Crete, 1st eage workshop in geophysical and geological challenges in hydrocarbon provinces of the eastern mediterranea, Malta, 6-7 December 2018.

7D. Participation in the development of students notes

- 1) “Applied Geophysics I” (shallow and deep seismics – head and reflected seismic waves),
- 2) Courses of “Applied Geophysics II” (near surface geophysics courses including the electrical, magnetic, gravimetric and electromagnetic methods). Professor A. Vafidis.

Last updated on the 11th of Joule 2019