

# CV

## George Apostolopoulos

### CONTENTS

Personal Details.....	2
Studies.....	2
Academic Work .....	2
Conferences & Seminars .....	4
<i>Conferences</i> .....	4
<i>Seminars</i> .....	6
Scientific Publications.....	6
<i>Theses</i> .....	6
<i>International Journals</i> .....	6
<i>Proceedings in international conferences</i> .....	9
Research Projects – Geophysical Studies: .....	14
CoEditor of Special Issue Near-Surface Geophysics Journal for Mineral Exploration and Mining 2022 .....	17
Reviewer .....	17
Membership in Professional & Scientific Associations .....	17
Member of International Committees .....	17

## Personal Details

Date of Birth: 13/11/1959  
Place of Birth: Pyrgos  
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Profession: Professor of National Technical University of Athens in Applied Geophysics

## Studies

Basic Degree: • B.Sc. Physics Department, University of Athens (1982).  
Postgraduate Diplomas: • Master of Science (M. Sc) in Applied Geophysics Department of Earth Sciences, University of Leeds, England (1984).  
• Ph.D. in Applied Geophysics Department of Geology, University of Athens (1993).

## Academic Work

Teaching Undergraduate Courses:

- **1985-1994:** Participation in academic activities of the Department of Geophysics, Geothermal Geology Department, University of Athens as a Special Graduate Scholarship (CMH) during the preparation of his doctoral dissertation.
  - TA for courses "General Geophysics," Geophysics 2 (seismic survey), "Geophysics 3 (Electrical Methods).
  - Participation in the lesson notes of the course "Geophysical 2" and "Geophysics 3. [{gapo-ref-1}](#)
  - Organizing and conducting of laboratory exercises for the course "General Geophysics"
  - Monitoring and supporting students to develop their diplomatic work.
- **2001-present:** Teaching as visiting scientist (2001-2002), as Lecturer of NTUA (until 7 / 2009), as Assistant Professor (7/2009 – 11/2014), as Associate Professor (11/2014 – 11/2019) and as Professor (11/2019-present) the lesson of Applied Geophysics and upgrading of laboratory exercises to students of the 9th semester of the School of Mining and Metallurgical Engineering of NTUA.
- **2003-present:** Co-teaching with the same as previous academic status the lesson of "Mineral Exploration" for students of 4<sup>th</sup> semester of the School of Mining and Metallurgical Engineering of NTUA
- **2003-present:** Co-teaching with the same as previous academic status the lesson of "Geothermal Fields Science and Technology" for students of 8<sup>th</sup> semester of the School of Mining and Metallurgical Engineering of NTUA

Teaching Postgraduate Courses:

- **2003-present:** Co-teaching with the same as previous academic status the lesson of "Underground Exploration Methods" for students of postgraduate course "Design and Construction of Underground Works: (Coordinating School of Mining and Metallurgical Engineering of NTUA)
- **2015-present:** Teaching with the same as previous academic status the lesson of "Seismic surveys as a tool in oil and gas exploration" for students of postgraduate course "Hydrocarbon Exploration and Exploitation": (AUTH, NTUA, UOA, DUTH)

Lecture Notes:	Notes for the Course of Applied Geophysics for the students of 9th semester of the School of Mining and Metallurgical Engineering of NTUA. <a href="#">{gapo-ref-2}</a>
Member of Supervision Committee of PhD Dissertations	18 PHD Dissertations (6 as supervisor)
Teaching (T) in Workshops or Organizing (O) Workshops:	<ul style="list-style-type: none"> <li>• 13-18/12/2007: "Applications of Geomorphology: theory and practice" (co-organized by Athens University, Harokopio University, Committee on Geomorphology &amp; Environment Geocultural Park of East Aegean) <b>(T)</b> <a href="#">{gapo-ref-4}</a></li> <li>• 17-18/6/2008: "Workshop in Engineering and Environmental Geophysics" EAGE-NTUA <b>(O)</b> <a href="#">{gapo-ref-5}</a></li> <li>• 22-25/6/2008: «Methodological Approaches in Geoarchaeology» in the conference «13th Belgium-France-Italy-Romania Geomorphological Meeting» <b>(T)</b> <a href="#">{gapo-ref-6}</a> <a href="#">{gapo-ref-20}</a></li> <li>• 10/10/2008: " Aggressively passive: Microseismic opportunities over an oilfield's life " lecture given by Dr. Peter Duncan SEG-NTUA <b>(O)</b> <a href="#">{gapo-ref-7}</a></li> <li>• 11/1/2011: "Underground CO2 storage" lecture given by Professor Lombardi, EAGE-NTUA <b>(O)</b> <a href="#">{gapo-ref-8}</a></li> <li>• 19/5/2011: " Seismic Imaging from Tunnels and Galleries. Challenges and Benefits of Viewing the Subsurface from Underground " lecture given by Dr Calin Cosma EAGE-NTUA <b>(O)</b> <a href="#">{gapo-ref-9}</a></li> <li>• 27/3/2013: "Basin and Petroleum Systems Modelling: Technology and Applications for Petroleum Exploration Risk and Resource Assesments" lecture given by Dr Bjorn Wygrala (Schlumberger) EAGE-NTUA <b>(O)</b> <a href="#">{gapo-ref-60}</a></li> <li>• 14/9/2014: "Seismic and GPR Methods for Urban and Microzonation Studies " lectures given by Dr. J. Ivanov, Dr. J. Xia, Dr. C-P Lin, Dr. Oz Yilmaz in the frame of EAGE Near Surface Geoscience 2014 Meeting <b>(O)</b> <a href="#">{gapo-ref-85}</a></li> <li>• 14/9/2014: "Time-lapse ERT Monitoring" lectures given by Dr. J. Chambers, Dr. T. Dahlin, Dr. J-H Kim, Dr. R. Supper, Dr. P. Tsourlos in the frame of EAGE Near Surface Geoscience 2014 Meeting <b>(O)</b> <a href="#">{gapo-ref-85}</a></li> <li>• 16-17/5/2017: "Eng-Env-Arch geophysics" All Greek Universities, NTUA <b>(T&amp;O)</b></li> <li>• 6/5/2019: "An overview of advanced technologies in the seismic value chain" lecture given by Dr. C. Tsingas (Saudi Aramco) EAGE-NTUA <b>(O)</b> <a href="#">{gapo-ref-116}</a></li> <li>• 22/11/2019: "The Global Energy Transition, Best Practices in Geoscience Investigations for Petroleum Exploration, Assessments of Undiscovered Resources" lecture given by Dr. B. Wygrala (Schlumberger) EAGE-NTUA <b>(O)</b> <a href="#">{gapo-ref-117}</a></li> </ul>
Upgrading of Applied Geophysics Laboratory Equipment:	<p>In addition of the existing Applied Geophysics Lab instrumentation after my arrival we acquired:</p> <ul style="list-style-type: none"> <li>• Differential Magnetometer Scintrex ENVIPRO</li> <li>• ERT meter SYSCAL PRO 72, Iris Instruments</li> <li>• Seismic source and 3D geophones for boreholes</li> <li>• Seismic airgun source and seismic streamer for measurements in boreholes or shallow marine environment</li> <li>• Seismograph StrataView 60 channels (by HELPE donorship)</li> <li>• Seismograph DAQLINKIII.</li> <li>• Seismic Source P και S waves Digipulse AWD-I 100 PS</li> <li>• Seismic Source P waves GISCO ESS-MINI</li> <li>• Low frequency geophones and new seismic cables</li> </ul>

- GPR Antennas MALA RAMAC, Shielded 1,6 GHz, 250 MHz, Unshielded 25MHz
- Conductivity Meters CMD-2 and CMD-4, GF Instruments
- LEICA Differential GPS series 1200

## Conferences & Seminars

### Conferences

- 46th Conference of Applied Geophysics of the European Association of Exploration Geophysicist (EAEG), London, England, 1984.
  - 1st Conference of Greek Geophysical Society, Athens, 1989.
  - 2nd Conference of Greek Geophysical Society, Florina, 1993.
  - 55th Conference of Applied Geophysics of the European Association of Exploration Geophysicist (EAEG), Stavanger, Norway, 1993.
  - 7th Conference of the Greek Geological Society, Thessaloniki, 1994.
  - 56th Conference of Applied Geophysics of the European Association of Exploration Geophysicist (EAEG), Vienna, Austria, 1994.
  - 64th Conference of Applied Geophysics of the Society of Exploration Geophysicists (SEG), Los Angeles, USA, 1994.
  - "St Petersburg '95" International Geophysical Conference & Exposition, St. Petersburg, Russia, 1995.
  - XV Congress of the Carpatho-Balkan Geological Association, Athens, 1995.
  - 58th Conference of Applied Geophysics of the European Association of Exploration Geophysicist (EAEG), Amsterdam, Netherlands, 1996.
  - 1st Congress of Balkan Geophysical Society (BGS), Athens, 1996
  - 8th Conference of the Greek Geological Society, Patras, 1998.
  - 2nd Congress of Balkan Geophysical Society (BGS), Istanbul, Turkey, 1999.
  - 5th Hellenic Geographical Congress, Athens, 1999.
  - 65th Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE), Stavanger, Norway., 2003.
  - 9th European Conference on Environment and Engineering Geophysics (EAGE), Prague, Czech Republic. 2003.
  - 66th Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE), Paris, France, 2004.
  - AMIREG 2004, Advances in Mineral Resources Management and Environmental Geotechnology, Chania, Crete, 2004.
  - 7th Greek Hydrogeological Congress, Athens, 2005.
  - 11th European Conference on Environment and Engineering Geophysics (EAGE), Palermo, Italy, 2005.
  - 4th Conference of the Balkan Geophysical Society (BGS), Bucharest, Romania, 2005.
  - 12th European Conference on Environment and Engineering Geophysics (EAGE), Helsinki, Finland, 2006.
  - 69th Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE), London, England, 2007.
  - 13<sup>th</sup> European Conference on Environment and Engineering Geophysics (EAGE), Istanbul, Turkey, 2007. Chairman and Reviewer.
  - International Conference "Geology and Water Management: Resources, Risks and Regulations (3Rs), Athens, 2008
  - 70th Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE), Rome, Italy, 2008.
  - 13th Geomorphological Congress of Belgium-France-Italy-Romania, Porto Heli, 2008.
  - 5th Congress of Applied Geophysics of the Balkan Geophysical Society (BGS), Belgrade, Serbia, 2009.
  - 15th European Conference on Environment and Engineering Geophysics (EAGE), Dublin, Ireland, 2009.
- Chairman in the Session: "Groundwater and Hydrogeophysics" and Reviewer**

- 5<sup>th</sup> Congress of Applied Geophysics of the Balkan Geophysical Society (BGS), Belgrade, Serbia, 2009.
- 72<sup>nd</sup> Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE),, Barcelona, Spain, 2010.
- 73<sup>rd</sup> Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE), Vienna, Austria, 2011.
- 6<sup>th</sup> Congress of Applied Geophysics of the Balkan Geophysical Society (BGS), Budapest, Hungary, 2011.
- 74<sup>th</sup> Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE), Copenhagen, Denmark, 2012. **Chairman in the Session: “Near-surface Geoscience Applications”.**
- 18<sup>th</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience, Paris, France, 2012.
- 75<sup>th</sup> Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE), London, Great Britain, 2013. **Chairman in the Session: “Near-surface Geoscience Applications” and reviewer.**
- 13<sup>th</sup> International Congress of the Geological Society of Greece, Chania, Ελλάδα, 2013.
- 19<sup>th</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience, Bochum, Germany, 2013. **Chairman in the Session: “Modelling and Inversion I”.**
- 7<sup>th</sup> Congress of Applied Geophysics of the Balkan Geophysical Society (BGS), Tirana, Albania, 2013.
- 76<sup>th</sup> Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE), Amsterdam, Netherlands, 2014. **Chairman in the Session of Student Programme: “Water Resources”.**
- 20<sup>th</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience, Athens, Greece, 2014. **Chairman of the Organizing Committee.** [{gapo-ref-10}](#) [{gapo-ref-85}](#)
- 77<sup>th</sup> Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE), Madrid, Spain, 2015.
- 21<sup>st</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience, Turin, Italy, 2015. **Chairman in the Session: “Best of SAGEEP”.**
- 8<sup>th</sup> Congress of Applied Geophysics of the Balkan Geophysical Society (BGS), Chania, Greece, 2015.
- 78<sup>th</sup> Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE), Vienna, Austria, 2016
- 22<sup>nd</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience, Barcelona, Spain, 2016.
- 1st Conference on Geophysics for Mineral Exploration and Mining (EAGE), We MIN 04, Barcelona, Spain, 2016. **Chairman in the Session: “Downhole and In-mine Geophysical Methods”.**
- 79<sup>th</sup> Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE), Paris, France, 2017
- 23<sup>rd</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience, Malmo, Sweden, 2017.
- 9<sup>th</sup> Congress of Applied Geophysics of the Balkan Geophysical Society (BGS), Antalya, Turkey, 2017. **Chairman in the Session: “Archeogeophysics and UXO Detection-II”**
- 80<sup>th</sup> Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE), Copenhagen, Denmark, 2018
- 24<sup>th</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience, Porto, Portugal, 2018. **Chairman in the Sessions: “Best of SAGEEP” & “Geophysics in Engineering Geology and Geotechnical I”.**
- 9<sup>th</sup> Congress of Applied Geophysics of the Balkan Geophysical Society (BGS), Varna, Bulgaria, 2019. **Chairman in the Session: “Near Surface Investigation”.**
- 81<sup>st</sup> Conference of Applied Geophysics of the European Association of Geoscientists and Engineers (EAGE), London, UK, 2019

- 25<sup>th</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience, Hague, Netherlands, 2019.
- SAGA 2019, Durban, South Africa, 2019. **Keynote Speaker “Min-Arch Geophysics” & Chairman in the Session: “Seismic”.**
- 26<sup>th</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience, Online, 2020. **Chairman in the Sessions: “Exploration under Cover” & “Innovative EU-Funded Mineral Exploration Solutions” & “Groundwater Exploration and Hydrogeophysics II” & “Environmental and Engineering Geophysics 2”.**
- Annual Meeting/Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP 2021), Online, 2021. **Presentation of EAGE NSG 2019 best paper: “Geophysical Survey at a Coastal Area of Artemida City, East Attica, Greece, with Archaeological Interest”.**
- 27<sup>th</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience, Bordeaux, France, 2021. Hybrid.
- 1<sup>st</sup> Conference on Hydrogeophysics Near Surface Geoscience, Bordeaux, France, 2021. Hybrid. **Member of the Scientific Committee.**
- 2<sup>nd</sup> Conference on Geophysics for Infrastructure Planning, Monitoring and BIM (EAGE), Near Surface Geoscience, Bordeaux, France, 2021. Hybrid
- 11<sup>th</sup> Congress of the Balkan Geophysical Society, Bucharest, Romania, 2021. **Member of the Scientific Committee.**
- 28<sup>th</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience, Belgrade, Serbia, 2022.
- 84<sup>th</sup> EAGE Annual Conference, Vienna, Austria, 2023. Receiving the **2023 EAGE Honorary Membership Award**
- 29<sup>th</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience, Edinburgh, UK, 2023.
- 2<sup>nd</sup> Conference on Hydrogeophysics Near Surface Geoscience, Edinburgh, UK, 2023. **Member of the Scientific Committee.**

### Seminars

- “Analysis of data on seismic reflection”, Conoco Oil Company, Leeds, England, 1984.
- "Vertical Seismic Profile (VSP) and Geophysical Well Logging", Schlumberger, two (2) days, Leeds, England, 1984.
- "Modern Seismic Prospecting for detecting oil and gas", BP Exploration Company LTD, three (3) days, Birmingham, England 1984.
- “Engineering Seismology: With Applications to Geotechnical Engineering” SEG Distinguished Instructor Short Course, Öz Yilmaz, 2015

### Scientific Publications

#### Theses

- G. Apostolopoulos, “A scale model study of screening layers and a combined refraction and resistivity survey of Pitch Hill”, M.Sc.Thesis of Applied Geophysics, University of Leeds, 1984 .
- G. Apostolopoulos, "Geophysical investigations in Sperchios River Basin, Ph.D. thesis, 1993. [{gapo-ref-12}](#)

#### International Journals

- “Geophysical engineering conditions at Ilarion damsite”, Louis J., Papadopoulos T., Pantartzis P., Apostolopoulos G.. Annales Geologiques des Pays Helleniques 35, σ.147-163, **1992**. [{gapo-ref-45}](#)

- “Geophysical Investigation in the Delta of Sperchios River”, G.V.Apostolopoulos. Bulletin of the Geological Society of Greece vol.XXX/5, p.45-51, **1994**. [{gapo-ref-21}](#)
- “Integrated geophysical study of the geothermal system in the Southern Part of Nisyros Island, Greece”, E.Lagios and G.V.Apostolopoulos. Journal of Applied Geophysics v.34, pp.55-61, Elsevier Sc.Publ., 1994. [{gapo-ref-47}](#)
- “The self-potential method in the geothermal exploration of Greece”, G.Apostolopoulos, I.Louis, and E.Lagios, Geophysics v.62, No. 6, pp.1715-1723, 1997. [{gapo-ref-48}](#)
- “Geophysical Studies relating to the tectonic structure of Kos Island”, E.Lagios, D.Papanikolaou, and G.Apostolopoulos. Bulletin of the Geological Society of Greece vol.XXXII/4, pp.205-213, **1998**. [{gapo-ref-49}](#)
- “Geophysical studies relating to the tectonic structure, geothermal fields and geomorphological evolution of the Sperchios River Valley, Central Greece”, G.Apostolopoulos, Journal of Balkan Geophysical Society, Vol.8, No 3, p.99-112, **2005**. [{gapo-ref-50}](#)
- “Combined Schlumberger and Dipole-Dipole Array for Hydrogeological Applications”, G.Apostolopoulos, Geophysics 73, no. 5; p. F189–F195, **2008**. [{gapo-ref-51}](#)
- “Geoarchaeological surveys at the cemetery of Ancient Kamara in the area Xiropotamos St. Nikolaos, Crete”, K. Theodorakopoulou, K. Pavlopoulos, G. Apostolopoulos, J. Basiakos and N. Zacharias, Bulletin of the Geological Society of Greece vol.XLII/I, pp.140-147, **2008**. [{gapo-ref-52}](#)
- “2D–3D resistivity and microgravity measurements for the detection of an ancient tunnel in the Lavrion area, Greece”, C.Orfanos and G.Apostolopoulos, Near Surface Geophysics 9, 449-457, **2011**. [{gapo-ref-53}](#)
- “Laboratory study of the cross-hole resistivity tomography: The Model Stacking (MOST) Technique”, K.Leontarakis and G.Apostolopoulos, Journal of Applied Geophysics, Volume 80, p. 67-82, **2012**. SCIEDIRECT TOP 25 LIST OF MOST DOWNLOADED ARTICLES. [{gapo-ref-54}](#)
- “Marine resistivity tomography for coastal engineering applications in Greece”, G.Apostolopoulos, Geophysics 77, no. 3; p. B97–B105, **2012**. [{gapo-ref-55}](#)
- “Analysis of different geophysical methods in the detection of an underground opening at a controlled test site”, C.Orfanos and G.Apostolopoulos, Journal of the Balkan Geophysics Society, Vol. 15, No. 1, p. 7-18, **2012**. [{gapo-ref-56}](#)
- “The Holocene evolution of the Kalamas delta (northwestern Greece) derived from geophysical and sedimentological survey”, A.Chabrol, G.Apostolopoulos, K.Pavlopoulos, E.Fouache and C. Le Coeur, Geomorphologie, Vol. 1, p. 45-58, **2012**. [{gapo-ref-57}](#)
- “Model Stacking (MOST) technique applied in cross-hole ERT field data for the detection of Thessaloniki ancient walls' depth”, K.Leontarakis and G.Apostolopoulos, Journal of Applied Geophysics, Volume 93, p. 101-113, **2013**. [{gapo-ref-59}](#)
- “Multiparameter analysis of geophysical methods for target detection: The unified geophysical model approach”, C. Orfanos and G.Apostolopoulos, Geophysics 78, No. 6, p. IM1–IM13, 2013. [{gapo-ref-61}](#)
- “Was the Piraeus peninsula (Greece) a rocky island? Detection of pre-Holocene rocky relief with borehole data and resistivity tomography analysis”, G. Apostolopoulos, K. Pavlopoulos, J.-P. Goiran and E. Fouache, Journal of Archaeological Science 42, 412-421, **2014**. [{gapo-ref-62}](#)
- “Combined geophysical investigation for the detection of ancient metallurgical installations near Keratea City, Greece” G. Apostolopoulos, Journal of Applied Geophysics 104,17-25, **2014**. [{gapo-ref-63}](#)
- “L’île du Pirée : quand les géographes du XXIe siècle valident une assertion du savant grec Strabon vieille de 2 000 ans” J.P. Goiran, K. Pavlopoulos, E. Fouache, G. Apostolopoulos, M. Triantafyllou and R. Etienne, Geochronique 140, **2014**. [{gapo-ref-68}](#)
- “Geophysical investigation in the Temple of Poseidon at Cape Sounio, Attica, Greece” G. Apostolopoulos, K. Leontarakis and C. Orfanos, First Break 32, 53-59, **2014**. [{gapo-ref-71}](#)

- “Geophysical investigation for the detection of liquefaction phenomena in an archaeological site, Lechaion, Greece” G. Apostolopoulos, D. Minos-Minopoulos and K.Pavlopoulos, *Geophysics* 80, No. 4, p. EN105–EN117, **2015**. [{gapo-ref-69}](#)
- “Liquefaction features at an archaeological site: Investigations of past earthquake events at the Early Christian Basilica, Ancient Lechaion Harbour, Corinth, Greece” D. Minos-Minopoulos, K. Pavlopoulos, G. Apostolopoulos, E. Lekkas and D. Dominey-Howes, *Tectonophysics* 658, 74-90, 2015. [{gapo-ref-70}](#)
- “Ithaka The story continues” J. Underhill, P. Styles, K. Pavlopoulos, and G. Apostolopoulos, *Geoscientist* v.28, no 4, 2018. [{gapo-ref-88}](#)
- “Automatic detection of unmineable inclusions while bucket wheel excavation digging, using electromagnetic (EM) sensor and GPS” M. Galetakis, A. Vafidis, G. Kritikakis, V. Deligiorgis, T. Michalakopoulos, G. Apostolopoulos, C. Roumpos and F. Pavloudakis, *Gornictwo Odkrywkowe (Surface Mining Journal)* **2018** (ISSN: 0043-2075), LVIX (4) , pp. 7-15, 2018. [{gapo-ref-95}](#)
- “Development of a fuzzy inference system for avoiding collision of bucket wheel excavator equipped with electromagnetic (EM) sensors with hard rock inclusions” M. Galetakis, A. Vafidis, A. Vasiliou, G. Kritikakis, V. Deligiorgis, T. Michalakopoulos, G. Apostolopoulos, C. Roumpos and F. Pavloudakis, *Gornictwo Odkrywkowe (Surface Mining Journal)* **2018** (ISSN: 0043-2075), LVIX (4) , pp. 16-22, 2018. [{gapo-ref-96}](#)
- “Assesment of geophysical methods for the detection of hard rock formations in lignite mines employing bucket wheel excavators. The case of South Field Lignite Mine, Nacedonia, Greece” A. Vafidis, G. Kritikakis, N. Economou, M. Galetakis, A. Soutana, T. Michalakopoulos, G. Apostolopoulos, C. Roumpos and F. Pavloudakis, *Gornictwo Odkrywkowe (Surface Mining Journal)* **2018** (ISSN: 0043-2075), LVIX (4) , pp. 23-30, 2018. [{gapo-ref-97}](#)
- “Possibilities for improving work efficiency of continuous surface mining systems operating in rocks with excessive digging resistance” C. Roumpos, D. Sideri, F. Pavloudakis, N. Kolovos, T. Michalakopoulos, G. Apostolopoulos, M. Galetakis and A. Vafidis, *Gornictwo Odkrywkowe (Surface Mining Journal)* **2018** (ISSN: 0043-2075), LVIX (4) , pp. 31-41, 2018. [{gapo-ref-98}](#)
- “Experimental design for applying geophysical methods in investigating the spatial distribution of hard formations in the excavation face of bucket wheel excavators” M. Triantafyllou, S. Pirtsos, L. Myronidis, C. Roumpos, F. Pavloudakis, T. Michalakopoulos, G. Apostolopoulos, M. Galetakis and A. Vafidis, *Gornictwo Odkrywkowe (Surface Mining Journal)* **2018** (ISSN: 0043-2075), LVIX (4) , pp. 42-50, 2018. [{gapo-ref-99}](#)
- “Requirements of a hard formations early detection system in opencast lignite mines” T. Michalakopoulos, G. Apostolopoulos, P. Kofakis, A. Voulgarakis, M. Menegaki, G. Amolochitis, M. Galetakis, and C. Roumpos, *Gornictwo Odkrywkowe (Surface Mining Journal)* **2018** (ISSN: 0043-2075), LVIX (4) , pp. 51-60, 2018. [{gapo-ref-100}](#)
- “Prediction of Soil Loss in a Reservoir Watershed Using an Erosion Model and Modern Technological Tools: A Case Study of Marathon Lake, Attica in Greece”, M. Xanthakis, K. Pavlopoulos, V. Kapsimalis, G. Apostolopoulos, G. Xanthopoulos, P. Stefanidis, N. Evelpidou, **2020**, *Environ. Sci. Proc.* 2020, 2, 63, doi:10.3390/environsciproc2020002063 [{gapo-ref-101}](#)
- “Geophysical investigation, in a regional and local mode, at Thorikos Valley, Attica, Greece, trying to answer archaeological questions” G. Apostolopoulos and A. Kapetanios, **2020** *Archaeological Propection* 28, 4, 435-452 [{gapo-ref-102}](#)
- “An integrated feasibility study using passive geophysical methods for the investigation of the Gerolekas bauxite deposits site” C Orfanos, K Leontarakis, K Polychronopoulou, G Apostolopoulos, K Athanasas, N Martakis, **2021**, Greece, *Near Surface Geophysics*, 2021. [{gapo-ref-119}](#)
- “Surface wave tomography using active sources in engineering applications: A 3D experiment at a test site of known conditions”, C Orfanos, K Leontarakis, G Apostolopoulos, **2022**, *Journal of Applied Geophysics* 200(4):104617, DOI: 10.1016/j.jappgeo.2022.104617 [{gapo-ref-123}](#)



- “Common-Mid-Point Cross-Correlation Stacking Tomography: A 3D approach for frequency-dependent mapping of Rayleigh waves Group and Phase velocity throughout an active seismic network”, K Leontarakis, C Orfanos, G Apostolopoulos, **2022**, Near Surface Geophysics 21(1), DOI: 10.1002/nsg.12241. [{gapo-ref-122}](#)
- “Toward the Optimization of Mining Operations Using an Automatic Unmineable Inclusions Detection System for Bucket Wheel Excavator Collision Prevention: A Synthetic Study”, G. Kritikakis, M. Galetakis, A. Vafidis, G. Apostolopoulos, T. Michalakopoulos, M. Triantafyllou, C. Roumpos, F. Pavloudakis, B. Deligiorgis, N. Economou and N. Andronikidis, **2023**, Sustainability 2023, 15, 13097, DOI: 10.3390/su151713097. [{gapo-ref-124}](#)
- “Palaeogeographic reconstruction of the Main Harbour of the ancient city of Delos (Greece)”, S. Desruelles, A. Chabrol, C. Hasenohr, K. Pavlopoulos, G. Apostolopoulos, V. Kapsimalis, M. Triantafyllou, O. Koukousioura, V. Mathe, R. Chapoulie, E. Fouache, **2023**, Journal of Archaeological Science 160, 105857, DOI:10.1016/j.jas.2023.105857. [{gapo-ref-125}](#)

### *Proceedings in international conferences*

- G. Apostolopoulos and J. Louis , "Velocity inversion and hidden layer problems in seismic refraction work", Proceedings of the First National Geophysical Conference, p.89-101, 1989. [{gapo-ref-11}](#)
- G. Apostolopoulos and E. Lagios. "Reconnaissance Geophysical Studies of the Geothermal System in the Area of Hypati Hot Spring in the Sperchios River Basin", Proceedings of the 2nd Conference of the Geophysical Association of Greece, s.330-339, 1993. [{gapo-ref-21}](#)
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- G. Apostolopoulos, C. Orfanos, K. Leontarakis, S. Karizonis, S. Chailas and E. Spyridonos, “Geophysical survey to investigate the deep structure and the geothermal potential of Methana Volcano, Greece”, 29<sup>th</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience 2023, Edinburgh, UK, 2023. [{gapo-ref-126}](#)
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- S. Zappalá, A. Malehmir, M. Papadopoulou, G. Apostolopoulos, “A High-Resolution Reflection Seismic Survey in the Historical Kefalonia Island, Greece”, 29<sup>th</sup> European Conference on Environment and Engineering Geophysics (EAGE), Near Surface Geoscience 2023 Edinburgh, UK, 2023. [{gapo-ref-127}](#)

## Research Projects – Geophysical Studies:

- **1987** "Goelectrical soundings and seismic refraction profiles in Kalamata, Messina for seismic design in the region" (*Contractor: University of Athens, Department of Geophysics-Geothermy, Coordinator: Professor K. Makropoulos, Funding: OASP*).
- **1988** "170 goelectrical soundings for the hydrogeological study of central Evia (*Contractor: University of Athens, Department of Geophysics-Geothermy, Coordinator: Professor J. Drakopoulos, Funding: Ministry of Agriculture*).
- **1988** "Combined application of 30 electrical soundings 6 electrical horizontal profiles for solving geotechnical problems in the region planned to construct a hydroelectric dam Hilarion, Aliakmon River, Kozani (*Contractor: University of Athens, Department of Geophysics-Geothermy, Coordinator: Associate Professor Louis J., Sponsor: PPC*).
- **1988** "Combined application of 32 electrical soundings and 9 horizontal electrical profiles for solving geotechnical problems in the region planned to construct a dam in the valley of the river Aposelemis, Heraklion (*Contractor: University of Athens, Department of Geophysics-Geothermy, Coordinator: Associate Professor Louis J., Funding: DEYAH*).
- **1989** "Application of seismic refraction method for identifying the soil mantle in the area of the construction of a hydroelectric dam in the Treasury, the River Nestos, Drama (*Contractor: University of Athens, Department of Geophysics-Geothermy, Coordinator: Associate Professor Louis J., Sponsor: PPC*).
- **1989** "Application of seismic tomography to determine the quality of the rock mass between research galleries and surface area of the construction of a hydroelectric dam Platanovrisi, river Nestos, Drama (*Contractor: University of Athens, Department of Geophysics-Geothermy, Coordinator: Associate Professor Louis J., Sponsor: PPC*).
- **1992** "Application of geophysical methods: gravity, self potential and VLF in the southern part of Nisyros island to locate the geothermal field with a view to recommending places of production wells (*Contractor: University of Athens, Department of Geophysics-Geothermy, Coordinator: Professor E. Lagios, Funding: PPC*).
- **1992** "Application of geophysical methods of resistivity and seismic refraction to detect the thickness of ash near Aliveri area in preparation for the construction of thermal power plant in the region" (*Contractor: University of Athens, Department of Geophysics-Geothermy, Coordinator: Professor Louis J., Sponsor: PPC*).
- **1993** "Geophysical study of the hydrogeological study for irrigation of the City Law Liosia (*Coordinator: G. Apostolopoulos, Head of the Survey: Pavlopoulos K. Sponsor: Municipality of New Liosia*).
- **1994** "GEO-HYDRO, Finding - Enrichment of Water Resources, Environmental Protection" EPET I - Measure 1.5 / new projects. (*Contractor: C. Sarantopoulos SA. Coordinator: G. Apostolopoulos*)
- **1995** "Geophysical study on Archaeometry study in archaeological excavations in Egypt's Siwa in Hellenistic tomb Makedonikoy type (*Contractor: University of Athens, Department of Geophysics-Geothermy, Coordinator: Professor: E. Lagios, Sponsors: University of Athens and various social institutions*).
- **1998** "Geophysical study for the construction of reservoir in Mills Fthiotida prefecture (*Coordinator: G. Apostolopoulos, Coordinator of hydrogeological study: Antoniadis C., Funding: Fthiotida Prefecture*).

- **2000** "Geophysical survey in the Survey of Agia (Keritis River) Voukolion (Tavronitis River), Deres and Sfakopigadi of Chania (*Coordinator: G. Apostolopoulos, Coordinator of hydrogeological study: V.Perleros-A.Lionis , Funding: Ministry of Agriculture, Chania Prefecture*).
- **2005-2007** «Attique - GEHIPAT, Géographie Historique des paysages de l'Attique.» Funded by CNRS and ANR. Coordinators: Roland Etienne and Eric Fouache.
- **2005-2008** PENED 03ED281 "New techniques of geophysical methods to address environmental and geotechnical problems in two and three dimensions" *Funding: GSRT, Coordinator: G. Apostolopoulos.*
- **2005-2008** PENED 03ED486 "New Technologies for Regional Cultural Development: Early Mycenaean bronze and iron in N. Peloponnese and reconstruct the ancient landscape anat. Crete" *Funding: GSRT, Coordinator: J. Bassiakos.*
- **2007-2008** «Projet de carottages et des prospections géophysique sur le littoral du port Sacré de Délos», in collaboration with EFA, Université Paris XII, NTUA. *Coordinator : R. Ettiene.*
- **2007-2011** IGCP Project 534 "Reconstruction of the past coastal environments by means of geomorphology and *geoarcheology*: management through geosites and virtual *itineraries*", *Leaders: Marta Pappalardo, Florina Grecu (Romania), funding UNESCO, ( [http://www.dst.unipi.it/igcp\\_recoast/partecipants.htm](http://www.dst.unipi.it/igcp_recoast/partecipants.htm)).*
- **2007:** "Marine and coastal geophysical surveys port project on the island of Chios" (Principal investigator). *Funding: Themeli SA*
- **2008:** "Preliminary assessment of sites for construction of hybrid power plant consisting of wind farms and reversible hydropower on the island of Rhodes " *Sponsor: IWECO SA*
- **2008:** "Preliminary assessment of sites for construction of hybrid power plant consisting of wind farms and reversible hydropower on the island of Samos ". *Sponsor: Energy Samos.*
- **2008:** "Preliminary assessment of sites for construction of hybrid power plant consisting of wind farms and reversible hydropower in the island of Crete". *Funding: Terna.*
- **2008-2009:** Geophysical surveys on the hill of St. Andrew Lavreotiki and the region "(Principal investigator). *Funding: DEYA Lavreotiki.*
- **2010:** "Geophysical research in the area of the river Platis, Rethymno" (Coordinator). *Funding: Office of Geological Projects V. Perleros in the frame of a project of the Ministry of Rural Development.*
- **2011:** "Geophysical Survey in the Municipality of Peristeri for the detection of stratigraphy and old coal tunnels" (Coordinator). *Funding: ATTIKO METRO.*
- **2011:** "Geophysical Survey in Lasithi Plateau for the detection of stratigraphy and finally positioning of a drilling with sampling for the detection of paleoecology and paleoclimate. (Coordinator). *Funding: University College of London, Department of Geography.*
- **2011:** "Geophysical Survey in the framework of detection and protection of buried archaeological monuments in parallel of the continuation of the mining activity in Milos Island", (Coordinator). *Coordinator of the Engineering Project: Professor D Kaliambakos, Funding: S&B SA.*
- **2012:** "Geophysical Survey in the detection of the geological underground near Malaxa village, Chania, Crete prior to the construction of an SME park", (Coordinator). *Coordinator of the Geological Project: M.Lionis, Funding: RE-DE-PLAN SA.*
- **2014:** "Geophysical Survey in the Ancient Temple of Poseidon, Sounio Cape", (Coordinator), *Funding: 2<sup>nd</sup> Ephorate of Prehistoric and Classical Antiquities of Ministry of Culture.*

- **2014:** “Geophysical Survey in the Kaisariani Monastery” in the frame of THALIS Project: “ Seismic protection of Monuments and Historical Constructions” (Coordinator), *Coordinator of THALIS Project: NTUA Professor K. Spyrakos, Funding: GSRT.*
- **2014-2015:** “ASPIDA-KRIPIS”, *Coordinator of Project: NOA Professor A. Tselentis, Funding: GSRT.*
- **2015:** “Geophysical Survey with the GPR method in Lampraki Ave and its crossroads in Piraeus City prior to the construction of tram railway”, (Coordinator), *Funding: Themeli SA.*
- **2015-2017:** “BEWEXMIN Bucket wheel excavators operating under difficult mining conditions including unmineable inclusions and geological structures with excessive mining resistance”, Research Fund for Coal and Steel (RFCS) RFCR-CT-2015-00003, *Funding: EU. [gapo-ref-83](#)*
- **2016:** “Geophysical survey on Kefalonia Island in places of archaeological interest” (Coordinator), *Funding: Odysseus Unbound Foundation.*
- **2016:** “Geophysical survey in an archaeological site at Feneos” (Coordinator), *Funding: University of Trier.*
- **2016:** “Geophysical survey with ERT and IP methods in the polluted site Kavodokanos, Lavrio, Attica, Greece” (Coordinator), *Funding: Lavrion Technological Park.*
- **2016:** “Geophysical survey with ERT method prior to dam construction at Myrtos, Ierapetra, Crete, Greece” (Coordinator), *Funding: V. Perleros.*
- **2016:** “Seismic geophysical survey at Rafina Stream, Attica, Greece” (Coordinator), *Funding: V. Perleros.*
- **2016:** “Geophysical Survey with GPR, EM and ERT methods in Skilitsi Ave and its crossroads in Piraeus City prior to the construction of tram railway”, (Coordinator), *Funding: Themeli SA.*
- **2017-2019:** “Geophysical Surveys in Paliki Peninsula” (Coordinator), *Funding: Odysseus Unbound Foundation.*
- **2017-2019:** “SMARTEXPLORATION Sustainable mineral resources by utilizing new Exploration technologies”, HORIZON 2020 New solutions for sustainable production of raw materials –New sensitive exploration technologies: 775971 — Smart Exploration — H2020-SC5-2016-2017/H2020-SC5-2017-OneStageB, *Funding: EU. [gapo-ref-84](#)*
- **2020-2021:** “Geophysical surveys at a coastal site near Heraklion, Crete and at Stachtorroï Island near Attica ” (Coordinator), *Funding: GEOVISTA SWEDEN –ARIADNE POWER CABLE CONNECTION CRETE-ATTICA .*
- **2020-2021:** “OUF geophysical – archaeological survey on Kefalonia Island” (Coordinator), *Funding: Odysseus Unbound Foundation.*
- **2021:** “Geophysical Survey in Petalidi Messinias area in the frame of a new road construction” (Coordinator), *Funding: Peloponnesus Prefecture.*
- **2021-2022:** “OUF Geophysical surveys on Kefalonia Island 2021” (Coordinator), *Funding: Odysseus Unbound Foundation.*
- **2021-2022:** “Geophysical study - along the road of Kalamata water supply construction” (Coordinator), *Funding: Water Supply Association of Municipalities of Kalamata Messini and Communities of Kalamata Area.*
- **2022:** “Geophysical survey with the gravimetric method in a coastal area near Alexandroupolis” (Coordinator) in the frame of the project “a Floating Storage Regasification Unit (FSRU), a Mooring and



a Pipeline system connecting the floating unit to the Greek National Natural Gas Transmission System (NNGTS)", *Funding: C&M Engineering S.A.*

- **2022-2023:** "Geophysical measurements (Gravity-Magnetic) and synthetic evaluation of results of old and new geophysical measurements and geological-tectonic study, in the Methana peninsula of the Regional Unit of Islands of the Attica Region" (Coordinator), *Funding: Power Public Corporation Renewables.*
- **2022-2023:** "Geophysical measurements (Gravity-Magnetic) and synthetic evaluation of results of old and new geophysical measurements and geological-tectonic study, on the island of Nisyros, of the Dodecanese Regional Unit, of the South Aegean Region" (Coordinator), *Funding: Power Public Corporation Renewables.*
- **2023:** "Geophysical survey in the context of the project: High Pressure Pipeline to West Macedonia" (Coordinator), *Funding: AVAX S.A.*

## CoEditor of Special Issue Near-Surface Geophysics Journal for Mineral Exploration and Mining 2022

{[gapo-ref-121](#)}, {[gapo-ref-120](#)}

### Reviewer

- Near Surface Geophysics, EAGE
- Journal of Applied Geophysics
- Geophysics
- Tectonophysics
- Geotechnical and Geological Engineering
- Journal of Geophysics and Engineering

### Membership in Professional & Scientific Associations

- Hellenic Geophysical Union (Board Member).
- Balkan Geophysical Society (BGS)
- European Association of Geoscientists and Engineers (EAGE). (Member of the Committee of Near Surface Section, Member of the Awards Committee, Representative for the EAGE Greek Chapter)
- Society of Exploration Geophysicists (SEG). (SEG Representative for Greece).

### Member of International Committees

- Member of the Awards Committee of EAGE (2014-2017)
- Member of the EAGE Committee of Near Surface Section (2014-2021)
  - Vice-Chairman of the Committee (June 2016-June 2018)
  - Chairman of the Committee (June 2018-June 2020)
  - Member of the EAGE Board (June 2018-June 2020)
- Member of the SEG Equity in process Task Force Committee (2021)