Dr. VASILIOS MELFOS <u>Professor</u> <u>in Economic Geology - Geochemistry</u>

CURRICULUM VITAE

✓ PERSONNEL INFORMATION

✓ EDUCATION

✓ TEACHING EXPERIENCE

✓ RESEARCH

✓ PUBLICATIONS



THESSALONIKI 2024

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1. PERSONAL DETAILS-EDUCATION

1.1. Personnel Details

FIRST & LAST NAME Vasilios Melfos

NAME OF FATHER Ioannis

DATE OF BIRTH 8th May 1964 PLACE OF BIRTH Thessaloniki

FAMILY STATE Married, with 2 childrens

NATIONALITY Greek

WORK ADDRESS Department of Mineralogy-Petrology-Economic Geology,

Faculty of Geology, Aristotle University of Thessaloniki, GR-

54124, Thessaloniki, Greece

TEL ++ 30 2310 998539 E-MAIL ++ 30 2310 998539 melfosv@geo.auth.gr

URL https://people.auth.gr/melfosv/?lang=en

CURRENT POSITION • Professor in Economic Geology - Geochemistry, at the

Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology, School of Sciences, Aristotle University of

Thessaloniki

• Head of the Department of Mineralogy-Petrology-Economic

Geology

Scopus Author https://www.scopus.com/authid/detail.uri?authorId=6506728374 Web of Science https://www.webofscience.com/wos/author/record/G-9559-2015

ORCID iD http://orcid.org/0000-0002-2887-424X

Google Scholar https://scholar.google.gr/citations?user=R_QpzcMAAAAJ&hl=el

Academia https://auth.academia.edu/VasiliosMelfos

ResearchGate https://www.researchgate.net/profile/Vasilios-Melfos

Publons https://www.webofscience.com/wos/op/peer-reviews/summary

1.2. Education

1989-1995 PhD in Economic Geology at the Department of Mineralogy-Petrology-Economic

Geology, Faculty of Geology, Aristotle University of Thessaloniki.

1983-1988 B.Sc. in Geology, University of Thessaloniki.

1.3. Positions Held

2022- Professor at the Department of Mineralogy-Petrology-Economic Geology,

present Faculty of Geology, Aristotle University of Thessaloniki.

2018-2022 Associate Professor at the Department of Mineralogy-Petrology-Economic

Geology, Faculty of Geology, Aristotle University of Thessaloniki.

2014-2018 Assistant Professor at the Department of Mineralogy-Petrology-Economic

- Geology, Faculty of Geology, Aristotle University of Thessaloniki.
- 2010-2014 Lecturer at the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology, Aristotle University of Thessaloniki.
- 2002-2010 Teaching and Research Assistant at the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology, Aristotle University of Thessaloniki.
- 2001-2005 Assistant Professor at the Laboratory of Mineralogy, Petrology and Geochemistry, Department of Agriculture, Crop and Animal Production, University of Thessaly (Volos), contract 407/80.
- 1997-1999 Postdoctoral Research at the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology, Aristotle University of Thessaloniki.
- 1995-2004 Participation at Research Projects of the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology, Aristotle University of Thessaloniki.

1.4. Scholarships

- 1997-1999 Scholarship for Postdoctoral Research in Economic Geology and Geochemistry at the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology, Aristotle University of Thessaloniki.
- 1989-1992 Postgraduate scholarship by the State Scholarships Foundation as PhD student

1.5. Awards - Distinctions

- School of Sciences, Aristotle University of Thessaloniki: Award of Social Impact.
- 2019 Aristotle University of Thessaloniki: Award of Excellence.
- The Award "Konstantinos Ktenas" of the Academy of Athens for 2018 was awarded to Vasilios Melfos (Department of Geology, AUTh) and Panagiotis Voudouris (Department of Geology and Geoenvironment, EKPA) for their original publication "Melfos V. and Voudouris P. (2017). Cenozoic metallogeny of Greece and potential for precious, critical and rare metals exploration. Ore Geology Reviews, 89, 1030-1057.
- 2016 Chair of the Session "Tethyan Tectonics and Metallogeny" at the SEG 2016 Conference: Tethyan Tectonics and Metallogeny of the Society of Economic Geologists, Çeşme, 25-28 September. Session 3a: Tethyan Tectonics and Metallogeny. Chairs: Vasilios Melfos and Vertrees Canby
- 2013-2019 Editorial Board of the Romanian Journal of Mineral Deposits

2. TEACHING EXPERIENCE

2.1. Courses Taught

2.1.1. Aristotle University of Thessaloniki

Und	erg	rad	uate	- C	ourses
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Ollucigiauu	ate - Courses
2011-2024	Teaching "Economic Geology", Faculty of Geology, 8 th semester.
2011-2014 2020-2022	Co-teaching "Applied-Environmental Geochemistry", Faculty of Geology, 6^{th} semester.
2012 2017-2024	Co-teaching "Foreign language geological terminology I", 5 th semester and "Foreign language geological terminology II", 6 th semester, Faculty of Geology.
2011-2015	Co-teaching "Geochemistry", School of Chemistry, 8 th semester.
2015-2023	Co-teaching "Geology-Geochemistry", School of Chemistry, 4 th semester.
2013-2016 2018-2019	Co-teaching "Geochronology", Faculty of Geology, 5 ^h semester.
2015-2024	Co-teaching "Ore Deposits", Faculty of Geology, 5 th semester.
2020-2022	Teaching "Ore Deposits II", Faculty of Geology, 6 th semester.
2023	Teaching "Ore Deposits of Greece", Faculty of Geology, 6 th semester.
2017-2024	Co-teaching "Educational Applications of Digital Technologies in Geology", Faculty of Geology, 8^{th} semester.
2020-2022	Co-teaching "Gemology", Faculty of Geology, 8 th semester.

Undergraduate - Training in microscopy

1989-1994 Assisting at training of the students in microscopy, as PhD candidate:

- 1. Ore Deposits
- 2. Ore Deposits II
- 3. Mineralogy
- 4. Rock-forming minerals
- 5. Sedimentary petrology.

1995-2009 Assisting at training of the students in microscopy:

- 1. Ore Deposits
- 2. Ore Deposits II

- 2010-2024 Co-teaching at training of the students in microscopy:
 - 1. Ore Deposits
 - 2. Ore Deposits II / Ore Deposits of Greece
- 2014 Co-teaching at training of the students in:
 - 1. Crystallography
 - 2. Mineralogy

Undergraduate - Field Trips

2010-2023 Co-teaching at the field trips of the Department of Mineralogy-Petrology-Economic Geology.

Postgraduate

- 2005-2006 Co-teaching "Economic Geology" at the Postgraduate Program "Geology and Geoenvironment" at the Faculty of Geology, University of Thessaloniki.
- 2005-2024 Co-teaching "Laboratory-Analytical Methods" at the Postgraduate Program "Geology and Geoenvironment" at the Faculty of Geology, University of Thessaloniki.
- 2006-2014 Co-teaching "Methods of Prospecting of Mineral Resources" at the Postgraduate Program "Geology and Geoenvironment" at the Faculty of Geology, University of Thessaloniki.
- 2010-2014 Co-teaching "Environmental Geochemistry" at the Postgraduate Program "Geology and Geoenvironment" at the Faculty of Geology, University of Thessaloniki.
- 2014-2018 Co-teaching "Applied and Environmental Geochemistry" at the Postgraduate
- 2020-2023 Program "Applied and Environmental Geology" at the Faculty of Geology, University of Thessaloniki.
- 2014-2018 Co-teaching "Tectonics and Metallogenesis" at the Postgraduate Program "Applied and Environmental Geology" at the Faculty of Geology, University of Thessaloniki.
- 2014-2024 Co-teaching "Ore Deposits and Ore Microscopy" at the Postgraduate Program "Applied and Environmental Geology" at the Faculty of Geology, University of Thessaloniki.
- 2018-2022 Co-teaching "Geochemical Data Processing Reserves Evaluation of Mineral Resources" at the Postgraduate Program "Applied and Environmental Geology" at the Faculty of Geology, University of Thessaloniki.
- 2020-2022 Co-teaching "Design and Restoration of Mines and Quarries Remote Sensing"

- at the Postgraduate Program "Applied and Environmental Geology" at the Faculty of Geology, University of Thessaloniki.
- 2006-2012 Co-teaching "Field Trips" at the Postgraduate Programs "Geology and Geoenvironment" and "Applied and Environmental Geology" at the Faculty of Geology, University of Thessaloniki.
- 2015-2018 Co-teaching "Sedimentary Basins- Sediment Deposition Processes-Paleogeography-Paleoenvironment" (GMOM 203) of the Cross-Field Postgraduate Program "Hydrocarbon Exploration and Exploitation" at the Faculty of Geology, University of Thessaloniki.
- 2006-2009 Co-teaching "Inorganic Pigments" (A2.13) of the Cross-Field Postgraduate Program: "Preservation And Restoration Of Cultural Monuments", School of Architecture, University of Thessaloniki.
- 2010-2023 Teaching "Inorganic Pigments" (A2.3) of the Cross-Field Postgraduate Program: "Preservation And Restoration Of Cultural Monuments", School of Architecture, University of Thessaloniki.
- 2014-2023 Teaching "About Stones" (A2.5) of the Cross-Field Postgraduate Program: "Preservation And Restoration Of Cultural Monuments", School of Architecture, University of Thessaloniki.
- 2014-2023 Teaching "Theoretical, Practical and Field Seminars on Archaeometry Case Studies II" (ARCH04) of the Erasmus Mundus Master: Archaeological Materials Science (ARCHMAT), School of Chemistry, University of Thessaloniki.
- 2018-2023 Co-teaching "Properties of materials" (MY2) and "Microscopic Methods for the Characterization of Materials. X-ray Diffraction and X-ray Fluorescence" (MY10), of the Cross-Field Postgraduate Program: "Physical and Chemical Methods for Diagnosis of Degradation of Cultural Heritage Materials", School of Chemistry, University of Thessaloniki.

2.1.2. Democritus University of Thrace (Xanthi)

2013-2016 Co-teaching "Technologies associated with the natural resources management legislation III (mineral resources)", 1st Semester and "Technologies associated with the legislation for the preliminary environmental permitting", "Technologies associated with the legislation of the environmental permitting" and "Case studies presentation", 2nd Semester in the Unit "Natural Resources & Ecosystems Management", of the Postgraduate Master's Program "The Technologies of Environmental Legislation", Department of Environmental Engineering, Democritus University of Thrace.

2.1.3. University of Thessaly (Volos)

- 2001-2003 Teaching "Geology-Mineralogy-Petrology" and "Geochemistry" at the School of Agricultural Sciences, University of Thessaly.
- 2003-2005 Teaching "Geochemistry" at the Faculties of Agriculture Crop Production and Rural Environment and Agriculture Animal Production and Aquatic Environment, University of Thessaly.
- 2004-2005 Teaching "Geochemistry" at the School of Agriculture Animal Production and Aquatic Environment, University of Thessaly.

2.1.4. Institute of Vocational Training (Thessaloniki)

- "Gemology and alternative materials" at the Institute of Vocational Training "KOSMOS" of Thessaloniki.
- 1998-2002 "Mineralogy-Metallurgy", "Gemology-Precious Stones" undergraduate courses at the Institute of Vocational Training of Thessaloniki.

2.1.5. List of trainers S.E.K.

List of trainers S.E.K. of the National Accreditation Centre of Vocational Training Structures and Accompanying Support Services (E.KE.PI.S.) in the category of Geologists and Geophysicists (2114).

2.2. Student Supervision

2.2.1. Diploma Theses

Supervisor or co-supervisor at 111 diploma theses.

2.2.2. Master Theses

Supervisor at 26 master theses (7 are in progress) and member of the supervising/examining committee at 27 master theses (10 are in progress).

2.2.3. Doctorate Theses

- 1. Peristeridou E. (in progress). Metallogenesis of critical and rare metals in the listwanite of Ano Vyrsini, Rhodope Massif, NE Greece. Faculty of Geology, University of Thessaloniki (Supervisor).
- 2. Nikopoulou M. (in progress). Study and identification of precious stones from Museum specimens. Faculty of Geology, University of Thessaloniki (Supervisor).
- 3. Kyranoudi M. (in progress). Αρχαιομετρική μελέτη των υλικών κατασκευής εντοίχιων ψηφιδωτών από μνημεία της Θεσσαλονίκης Faculty of Physics, University of Thessaloniki (Supervisor).
- 4. Zaimis S. (in progress). The distribution of critical metals at the Lavrion (Attica, Greece) intrusion-related polymetallic ore system. Fakultät Für Geowissenschaften, Geotechnik

- Und Bergbau, Technische Universität Bergakademie Freiberg, Germany (Supervising committee).
- 5. Lazaridis G. (2024). Formation conditions of hypogene caves in the Greek orogen. Mineralogy, geochemistry, stable isotopes (C, O, S), fluid inclusions. Faculty of Geology, University of Thessaloniki (Supervisor).
- 6. Stergiou Ch. (2022). Critical and rare metals in Tertiary magmatic-hydrothermal deposits at the Serbo-Macedonian Metallogenic Province in Greece (Vathi, Gerakario, Laodikino, Kolhiko, Aspra Chomata). Faculty of Geology, University of Thessaloniki (Supervisor).
- 7. Mavrogonatos K. (2021). Mineralogical, petrographic and geochemical study of hydrothermal alteration zones and related porphyry-epithermal mineralization at Sapes-Kirki area, NE Greece. Faculty of Geology and Geoenvironment, National and Kapodistrian University of Athens (Supervising committee).
- 8. Giouri E. (2021). Mineralogical and geochemical environmental research in the area of Philippoi Municipality, Kavala Prefecture. Faculty of Geology, University of Thessaloniki (Supervising committee).
- 9. Kyropoulou D. (2016). Technological evolution and pathogenesis of historical mortars. Faculty of Geology, University of Thessaloniki (Supervising committee).
- 10. Zisi N. (2016). Study of bear fossils the Loutra cave in Almopia using isotopic methods and diagenetic indicators: a new approach to palaeoenvironmental conditions. Faculty of Geology, University of Thessaloniki (Supervising committee).

2.2.4. Participation in examination committees for doctoral theses

- 1. Tsombanoglou K. (2011). Mineralogical and geochemical study of the suspended particulate matter and the bottom sediments at the northern part of the Thermaikos Gulf. Faculty of Geology, University of Thessaloniki.
- 2. Papanikolaou E. (2016). Investigation of corrosion factors of the building stones from the temples of Demeter and Asclepius in the Archaeological Site of Dion. Faculty of Geology, University of Thessaloniki.
- 3. Tzamos E. (2016). Mineralogy, petrology and ore geology of the Xerolivado ophiolites (Vourinos, Western Macedonia, Greece). Faculty of Geology, University of Thessaloniki.
- 4. Vaxevanopoulos M. (2017). Record and study of the ancient mining activity on Mount Pangaion, E. Macedonia, N. Greece. Faculty of Geology, University of Thessaloniki.
- 5. Bekiaris T. (2018). Technologies of the ground stones in Neolithics of Northern Greece: The Neolithic settlement of Avgi in Kastoria. School of History and Archaeology, University of Thessaloniki.
- 6. Arvaniti Th. (2019). Investigation with non-invasive or minimally invasive techniques, of materials and objects found along with bones in burials of eminent persons in ancient Macedonian society: Contribution to the understanding of funerary customs. School of Chemistry, University of Thessaloniki.
- 7. Emmanouilidis Ch. (2019). Metallogenesis in the area between Veria and Naousa. Faculty of Geology, University of Thessaloniki.

- 8. Alexandridis I. (2023). Contribution to the understanding of the geological structure and petroleum systems of Epirus with integration of field geology and organic geochemistry methods. Faculty of Geology, University of Thessaloniki.
- Varnava A. (2023). Architectural structure, deformation kinematics and geotectonic setting of the Mamonia complex and ophiolitic mixtures of SW Cyprus. Faculty of Geology, University of Thessaloniki.
- 10. Mytiglaki (2023). Genesis of the palygorskite-smectite deposits in the area of Grevena-Kozani. Faculty of Geology, University of Thessaloniki.
- 11. Myo Thu Aung (2023). Geology and Genesis of the Nwe Yon-Kwinthoneze Gold District, Central Myanmar: Insights from Mineralogical, Fluid Inclusions and (S, C, O, H, Pb) Isotopes. Faculty of Geology, Geophysics and Environmental Protection, AGH University of Science and Technology, Poland.
- 12. Pantazopoulou Z. (2024). The Contribution of Remote Sensing and GIS to Geological Heritage Management at Different Scales. Faculty of Geology, University of Thessaloniki.

2.2.5. Post-Doc research supervision

- 1. Aikaterini Giouri (2021). Study of the Fe- and Mn-oxides composition in stream sediments from the Palaia Kavala district, Northern Greece. Faculty of Geology, University of Thessaloniki (in progress).
- 2. Stergiou Ch. (2023). Mineralogy and geochemistry of critical metals in magmatic-hydrothermal, lateritic and sedimentary deposits of northern Greece (Vathi, Vermio, Kastoria, Filiates). Faculty of Geology, University of Thessaloniki (in progress).

2.3. Training notes

- 2021 "Gemology" (in Greek) for the students of the Faculty of Geology, University of Thessaloniki.
- 2014 "Rocks as building materials in antiquity" (in Greek) Postgraduate course of the Cross-Field Postgraduate Program: «Preservation and Restoration Of Cultural Monuments», School of Architecture, University of Thessaloniki.
- "Geochemistry" and "Geology-Geochemistry" (in Greek) as co-writer, for the students of the School of Chemistry, University of Thessaloniki.
- "English Geological Terminology II" as co-writer, for the students of the Faculty of Geology, University of Thessaloniki.
- 2008 "Inorganic Pigments" (in Greek) Postgraduate course of the Cross-Field Postgraduate Program: «Preservation And Restoration Of Cultural Monuments», School of Architecture, University of Thessaloniki.
- 1998 "Mineralogy-Metallurgy-Precious Metals" (in Greek) Institute of Vocational

Training of Thessaloniki.

- 1998 "Gemology-Precious Stones" (in Greek) Institute of Vocational Training of Thessaloniki.
- "English Geological Terminology I and II" as co-writer, for the students of the Faculty of Geology, University of Thessaloniki.

2.4. Educational material of the Laboratory of Ore Microscopy

2003-2006 Participation in the re-organization of the educational material of the Laboratory of Ore Microscopy, Faculty of Geology, University of Thessaloniki.

2.5. Academic Advisor of the AUTH SEG Student Chapter

The Student Chapter of the Society of Economic Geologists (S.E.G) in the Aristotle University of Thessaloniki operates since September 2014, and I serve as the Academic Advisor. The Chapter has 20 members who are also members of the SEG and have a genuine interest in the subjects of Ore Deposits and Economic Geology, as well as in the research, assessment and exploitation of the mineral raw materials. The actions of the Chapter includes presentations with topics of special interest, field trips financed by the SEG and the private sector, seminars, workshops and lectures by geoscientists of the private and academic sectors. An important part of the Student Chapter activities incorporates initiatives to promote and disseminate the importance of Economic Geology to the public. The Student Chapter received from the Rectorate Authorities of the University of Thessaloniki a mention for its actions during the academic year 2015-16 and an Award of Excellence in 2020-21.

3. UNIVERSITY COMMITTEES

- 2003-2023 Member of the committee of the Fluid Inclusions Lab at the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology.
- 2003-2024 Member of the committee of the Mineralogical-Petrologic Museum at the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology.
- 2007-2024 Member of the committee of the Separation and Rock Fracture Lab at the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology.
- 2011-2024 Member of the committee of the Reflected-light Microscopy Lab at the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology.
- 2007-2013 Member of the committee of Events and Public Relations at the Faculty of Geology.
- 2013-2016 Member of the committee of Lectures, Seminars, Events and Public Relations at the Faculty of Geology.

2016-2024	Member of the committee of Extraversion of the Faculty of Geology.
2020-2022	Member of the committee for the Course Program of the Faculty of Geology.
2008-2009	Member of the committee of Program of Teaching and Examinations and Classroom Program at the Faculty of Geology.
2010-2016	Member of the committee of Library at the Faculty of Geology
2011-2016	Member of the committee of Field Trips at the Faculty of Geology.
2010-2014	Member of the committee of the coordination of the Postgraduate Program "Mineral Resources-Environment" at the Faculty of Geology.
2020-2024	Member of the committee of the coordination of the Postgraduate Program "Applied and Environmental Geology" at the Faculty of Geology.
2013-2017	Coordinator of the committee of European Educational Programs at the Faculty of Geology.
2015-2016	Member of the committee of Organizing events with students of Secondary level Education at the Faculty of Geology.
2016-2017	Member of the planning events committee of the School of Sciences.
2016-2018	Member of the planning events committee for the anniversary of 90 years of the School of Sciences.
2020-2023	Member of the Committee of the Cross-Field Postgraduate Program: "Physical and Chemical Methods for Diagnosis of Degradation of Cultural Heritage Materials", School of Chemistry.
2022-2024	Member of the Communication Committee of the School of Sciences Coordinator for the academic year 2022-23.
2020-2024	Director of the "Laboratory of Geochemistry" at the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology.
2023-2024	Head of the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology.

4. RESEARCH

4.1. Research Interests

My research activity mainly refers to issues of Economic Geology, Geochemistry,

Mineralogy and Petrography.

Specifically, my scientific activity includes:

- Geochemical, mineralogical and Fluid inclusion studies of magmatic-hydrothermal, porphyry and epithermal type mineralizations. Ore mineralogical study of rare metal (Re, Mo, Te, Bi) deposits.
 - Fluid inclusion research.
 - Carbon and oxygen isotopes study of carbonate rocks.
- Provenance determination of the raw materials of white marble archaeological artifacts, based on mineralogy and isotopic geochemistry.
 - Geological context for mines in Attica and the ancient world
 - Environmental geochemistry and mineralogy in sediments and water streams

4.2. Scientific - Laboratory Training

- Microscopy on minerals: reflected light microscope, transmitted light microscope, scanning electron microscopy (SEM) at the University of Thessaloniki.
- X-Ray Diffraction of minerals: X-ray diffractometry (XRD) at the University of Thessaloniki.
- Mineral microprobe analysis at the Institute of Mineralogy and Geochemistry. University of Cologne, Germany.
- Microthermometry for the study of fluid inclusions at the University of Thessaloniki

4.3. Participation in Research Projects

1. 2021-2024 "Action for Research and Teaching Mining exploration

Inclusive School - ARTeMIS"

Faculty of Geology AUTH, Faculty of Geology and Geoenvironment EKPA, Friedrich Alexander Universität Erlangen-Nürnberg $\kappa\alpha\iota$ Universite De Lorraine, France

Financing: Erasmus+

Project Leader: Alexandre Tarantola Project Leader at AUTH: V. Melfos

2. 2022-2024 "Targeted investigation of critical metals in vein-hosted gold deposits at the Serbo-Macedonian Metallogenic Province, Northern Greece"

Faculty of Geology AUTH and Rheinisch-Westfälische Technische Hochschule Aachen

Financing: Greek State Scholarships Foundation (IKY) and German Society for

Academic Exchanges (DAAD)
Project Leader: G.-A. Sakellaris

3. 2022 "Evaluation of the existing studies for the Sarigiol basin and the expression of a scientific assessment for the origin of the hexavalent chromium in the groundwater of the area"

Faculty of Geology AUTH

Financing: Kozani Municipal Water Supply and Sewerage Company (DEYAK)

Project Leader: V. Melfos

4. 2020-2021 "Petrographic study and isotopic analysis of the Leivithra SW wall"

Faculty of Geology, AUTH

Financing: Ephorate of Antiquities of Pieria

Project Leader: V. Melfos

5. 2015-2016 "Provenance study of selected ancient millstones from Thasos island through

a mineralogical and geochemical research"

Faculties of Geology, AUTH and MCF Archéologie Grecque, Université Lille 3,

France.

Financing: CNRS - HALMA-IPEL - Université Lille 3, France

Project Leader: V. Melfos

6. 2014 "Hydrochemical-Hydrogeological study of the water-supply area of Volos

Municipality"

Faculties of Geology and Chemistry, University of Thessaloniki.

Financing: Municipal Company For Water Supply And Sewerage Of Greater

Volos Area (DEYAMV)

Project Leaders: K. Voudouris (2013-2014) and I. Stratis (2008-2013).

7. 2013-2016 "Western Tethyan Metallogeny Project"

Mineral Deposit Research Unit (MDRU), The University of British Columbia (UBC), Vancouver, Canada, Faculties of Geology and Chemistry, University of

Thessaloniki.

Financing: MDRU, UBC, Vancouver, Canada

Project Leader: Aleksandar Miskovic

8. 2012 "Combined archaeological and petrographic-geochemical study of a newly

discovered prehistoric chert quarry in Triadi of Thessaloniki, Central

Macedonia, Greece"

Faculty of Geology, University of Thessaloniki.

Financing: INSTAP. Project Leaders: V. Melfos and Niels Andreasen

9. 2012 "Mineralogical, petrographic and isotopic (C,O) study of marbles for ancient

quarries in Macedonia. Contribution to the determination of marble archaeological implements for preservation or for identification of

authenticity"

Department of Mineralogy-Petrology-Economic Geology, University of

Thessaloniki.

Financing: Research Committee of the University of Thessaloniki. Project

Leader: V. Melfos

10. 2011 "Provenance of the raw materials from selected poros samples at the

Ancient Theatre of Larisa"

Project without financing: Scientific Committee of the "Ancient Theatre of

Larisa"

Project Leader: V. Melfos

11.2010 "Provenance of the raw materials from selected marble samples at the Ancient Theatre of Larisa" Project without financing: Scientific Committee of the "Ancient Theatre of Larisa" Project Leader: V. Melfos 12.2010-2011 "Organization of a Master Program at the Science of Conservation in Morocco" of Universities Fez and Marrakech, Morocco Scientific coordinator: Ε. Varella. TEMPUS programs in collaboration with AUTh 13.2008 "Organization of a Master Program in Conservation Science at the University of Yarmouk, Jordan" Yarmouk University. Ibrid. Jordan Scientific coordinator: E. Varella. TEMPUS program in collaboration with AUTh: Vocational Seminar on Cultural Heritage Preservation 14.2008 "Conservation, preservation and restoration of cultural monuments" Department of Architectural Engineering, AUTh Scientific coordinator: Em. Stefanidou. 15. 2006-2007 "Provenance of the raw materials of the chipped-stone artifacts through petrographic and geochemical analyses at the Neolithic excavation in Drakaina Cave, Kefalonia, Western Greece" Financing: INSTAP. Project Leader: G. Stratouli. 16.2005-2006 "Research for the development of the karst caves in the region of N. Perivoli, Larissa" Faculty of Geology, University of Thessaloniki. Financing: Larisa Prefecture. Project Leader: E. Tsoukala. "Petrographic and geochemical study of the lithic artifacts from the Neolithic 17. 2004-2005 excavation at the Mikro Vouni in Samothraki" Department of Mineralogy-Petrology-Economic Geology, University of Thessaloniki Financing: INSTAP. Project Leader: M. Vavelidis. "Characterization of the lithic artifacts from the Neolithic excavations in 18. 2003-2005 Drakaina Cave, Kefalonia: a petrographic-geochemical approach for the determination of raw materials and sources" Financing: INSTAP. Project Leader: G. Stratouli.

"Identification of sources of gold, silver, lead and copper in Macedonia and

19. 2002-2004

Thrace in antiquity"

Faculty of Geology, University of Thessaloniki, in cooperation with the Institut für Archëometrie του TU Bergakademie Freiberg Germany.

Program to promote exchanges and scientific cooperation between Greece and Germany IKYDA 2001

Project Leader: M. Vavelidis.

20. 2002-2003 "Promotion, protection and sustainable use of the cave Polyphemus in Maronia, Prefecture of Rhodopi, Thrace"

Faculty of Geology, University of Thessaloniki.

Financing: Region of Eastern Macedonia and Thrace.

Project Leader: S. Pavlides.

21. 2000 "Primary study of the ancient mining and metallurgical works in Kipouristra, Olympias, Chalkidiki"

Department of Mineralogy-Petrology-Economic Geology, University of Thessaloniki

Financing: Ephorate of Prehistoric and Classical Antiquities and Ephorate of

Byzantine Antiquities of Thessaloniki

Project Leader: M. Vavelidis.

22. 1999 "Preservation and management of the Rhodope mountain"

Natural history Museum of Crete

Financing: University of Crete. Project Leader: M. Mylonas.

23. 1999-2000 "Study of the old quarries in the broader area of Petrota, Evros prefecture.

The role of the quarries in the preservation of the geological-quarrying and cultural heritage"

Department of Mineralogy-Petrology-Economic Geology, University of Thessaloniki

Financing: Municipality of Trigono. Project Leader: M. Vavelidis.

24. 1999-2000 "ADAPT Lydia Lithos - Strategy project for protection and prediction of the industrial changes influence on the employment in the marble production

industry"

Department of Mineralogy-Petrology-Economic Geology, University of

Thessaloniki

Project Leader: A. Tsirambides.

25. 1998-2000 "Study of gold, silver and stone archaeological finds from the excavations of

ancient Mesimvria-Zoni"

Department of Mineralogy-Petrology-Economic Geology, University of

Thessaloniki

Financing: European Community through the Archaeological Museum of

Komotini

Project Leader: M. Vavelidis.

26. 1996-1998 "Archaeometric research for the provenance of gold for archaeological finds in Macedonia dated from Neolithic time to late Hellenistic period"

Department of Mineralogy-Petrology-Economic Geology, University of Thessaloniki

Research Project PENED. Financing: General Secretariat for Research and Technology of Greece (1163).

Project Leader: M. Vavelidis.

27. 1996 "Magmatism, metallogenesis and exploitation of mineral resources in the area of Kavala-Paggaion in Eastern Macedonia"

Department of Mineralogy-Petrology-Economic Geology, University of Thessaloniki

Research Project PENED. Financing: General Secretariat for Research and Technology of Greece (91 243).

Project Leader: G. Christofides.

28. 1995-1997 "Provenance of gold for archaeological finds dated from the late Classical to Hellenistic times (Vergina, ancient Pydna, Derveni, Sedes, Stavroupoli)"

Department of Mineralogy-Petrology-Economic Geology, University of Thessaloniki

Financing: Research Committee of the University of Thessaloniki (7661).

Project Leader: M. Vavelidis.

4.4. Scientific collaborations with Research Groups

2019-2024 «Magmatism and metallogenesis in Greece»
 Co-working with Reiner Klemd, Karsten Haase, Keith Manuel (University of Erlangen, Germany), Alexandre Tarantola (University of Lorraine, France) and Panagiotis Voudouris (University of Athens)

2. 2014-2022 "Precious stones in Greece"
 Co-working with Stefanos Karampelas (Bahrain Institute for Pearls & Gemstones - DANAT) and Professor Panagiotis Voudouris (University of

Athens).

3. 2013-2016 "Western Tethyan Metallogeny Project"

Co-working with Craig Hart, Aleksandar Miskovic, Matias Shanchez, Thomas Bissig (MDRU-UBC), Panagiotis Voudouris (University of Athens) Mineral Deposit Research Unit (MDRU), The University of British Columbia (UBC), Vancouver, Canada

4. 2012-2014 "Archaeological and petrographic-geochemical study of the prehistoric chert quarries in Triadi of Thessaloniki"

Co-working with the archaeologist Niels Andreasen.

5. 2012-2018 "Genesis of magnesites in Northern Greece"

Co-working with Ladislav and Sabina Strmic-Palinkas (Department of Geology, University of Zagreb, Croatia)
Scientific agreement between the University of Thessaloniki and the

University of Zagreb

- 6. 2006-2024 "Genesis of hydrothermal ore deposits in Greece",
 Co-working with Paul Spry (Iowa State University, USA) and Panagiotis
 Voudouris (University of Athens)
- 7. 2006-2018 "Gold in ore deposits in Greece and Bulgaria-mineralogical, archaeometric, ecological aspects"

 Participation in the Exchange Program between the University of Thessaloniki and the University of Sofia, Bulgaria.
- 8. 1999-2006 "Gold and platinum group elements from mineral deposits in Greece and Bulgaria"

 Participation in the Exchange Program between the University of Thessaloniki and the University of Sofia, Bulgaria.
- 9. 1991-1992 "Mineralogy and genetical models of gold and base-metal deposits from eastern Rhodope, Bulgaria and northern Greece"

 Participation in the Exchange Program between the University of Thessaloniki and the University of Sofia, Bulgaria.

4.5. Congresses and Meetings

4.5.1. International Congresses

1. 2023 2nd International Conference on Raw Materials and Circular Economy (RawMat 2023), Athens, Greece, 28 Aug - 02 Sep (2 posters).

Member of the Organizing Committee, of the Scientific Committee and Chairman at the SESSION C6 Reuse-Recycling and Valorisation II

(https://www.rawmat2023.ntua.gr/conference-information/programme/detailed-programme/

2. 2022 XXII Congress of the Carpathian Balkan Geological Association (CBGA 2022), Plovdiv, 7-11 September (2 oral and 6 poster presentations).

Chairman at the Session "Economic Geology" (https://cbga2022.geology.bas.bg/).

- 3. 2016 SEG 2016 Conference: Tethyan Tectonics and Metallogeny of the Society of Economic Geologists, Çeşme, 25-28 September (1 poster presentation).
 - Chairman at the Session "Tethyan Tectonics and Metallogeny"
 - (http://www.seg2016.org/technical-program.html).
- 4. 2010 XIX Congress of the Carpathian Balkan Geological Association, Thessaloniki, 23-26 September (2 oral presentations and 2 poster presentations).

- 5. 2009 EGU 2009, European Geosciences Union, General Assembly 2009, Vienna, Austria, 19-24 April (1 oral and 1 poster presentation).
- 6. 2008 XIII All-Russian conference on thermo-barogeochemistry in conjunction with IV APIFIS symposium of the Russian Mineralogical Association, Moscow, Russia, 22-25 September (1 oral presentation).
- 7. 2006 11th International Conference on Experimental Mineralogy, Petrology and Geochemistry (EMPG XI) of the European Mineralogical Union and the Mineralogical Society of Great Britain. Bristol, UK, 11-13 September (1 poster presentation).
- 8. 2005 Field Workshop of IGCP-486 "Au-Ag-telluride-selenide deposits", Kiten, Bulgaria, 14-19 September (1 oral presentation).
- 9. 2003 7th International Conference of ASMOSIA (Association for the Study of Marble and Other Stones used in Antiquity). Thasos, Greece, 15-20 August.
- 10. 2003 7th Biennial of SGA. "Mineral Exploration and Sustainable Development". Athens, 24-28 August (1 oral presentation).
- 11. 2002 6th International Conference: "Protection and Restoration of the Environment". Skiathos, Greece, 1-5 July (1 oral presentation).
- 12. 2000 1st Workshop titled "Geodynamics and Ore Deposit Evolution of the Alpine-Balkan-Carpathian-Dinaride Province". Borovets, Bulgaria, 26-29 May (1 oral and 2 poster presentations).
- 13. 1997 1st International Conference for the "Ancient Greek Technology". Thessaloniki, 4-7 September (1 oral presentation).
- 14. 1996 International Conference "TERRANES OF SERBIA. The Formation of the Geologic Framework of Serbia and the Adjacent Region". Belgrade-Brezovica Yugoslavia, 23-27 September (3 oral presentations).

 Chairman at the Session "Metallogeny and Plate Tectonics in the Carpatho-Balkan Region".
- 15. 1995 15th International Conference for the Geology of the Carpatho-Balkan. Athens, 17-20 August (1 oral presentation).
- 16. 1995 8th International Conference for the Research on Fluid Inclusions (ECROFI). Sitges, Spain, 21-23 June (2 oral presentations).
- 17. 1991 1st Biennial of SGA. "Source, transport and deposition of metals". Nancy, France, 30 August-3 September (1 oral presentation).

- 18. 1989 2nd Greek-Bulgarian Symposium. "Geological and Physico-geographical problems of the Rhodope Massif". Thessaloniki, 14-17 October.
- 19. 1987 1st Greek-Bulgarian Symposium. "Geological and Physico-geographical problems of the Rhodope Massif". Smolyan, Bulgaria, 16-19 September.

4.5.2. National Congresses

- 2022 16th Congress of the Geological Society of Greece, Patras, 17-19 October (5 oral presentations or posters).
 Chairman at the Session "Geochemistry Mineralogy Petrology and
 - Chairman at the Session "Geochemistry, Mineralogy, Petrology and Volcanology" (https://gsg2022.gr/general-sessions/).
- 2. 2021 33rd Scientific Conference for the Archaeological Investigations in Macedonia and Thrace, Thessaloniki, 22-24 April (1 oral presentation).
- 3. 2017 1st Conference of the Department of Culture and Sciences of the Municipality of Larissa and the Folklore Historical Museum of Larisa, Larisa, 3-5 November (1 oral presentation).
- 4. 2016 14th Conference of the Geological Society of Greece, Thessaloniki, Greece, 25-27 May (1 oral presentations and 3 posters).
- 5. 2014 10th Geographical Conference of the Hellenic Geographical Society, Thessaloniki, 22-24 October.
- 6. 2014 10th Hydrogeological Conference of Greece, Thessaloniki, 8-10 October.
- 7. 2010 12th Conference of the Geological Society of Greece, Patras, Greece, 19-22 May (2 oral presentations).
- 8. 2010 21st Scientific Conference for the Archaeological Investigations in Macedonia and Thrace, Thessaloniki, 11-13 March (1 oral presentation).
- 9. 2008 5th Symposium of the Hellenic Society for Archaeometry, Athens, 8-10 October (1 oral presentation).
- 10. 2005 2nd Conference of the Committee of Economic Geology, Mineralogy and Geochemistry of the Geological Society of Greece, Thessaloniki, 7-9 October (1 oral presentation).
- 11. 2004 10th Conference of the Geological Society of Greece, Thessaloniki, 15-17 April (1 oral presentation).
- 12. 2003 4th Symposium of the Hellenic Society for Archaeometry, Athens, 28-31 May (1 oral presentation).

- 13. 2002 6th Greek Geographical Conference of the Hellenic Geographical Society, Thessaloniki, 3-5 October.
- 14. 2002 15th Scientific Conference for the Archaeological Investigations in Macedonia and Thrace, Thessaloniki, 14-16 February (1 oral presentation).
- 15. 2001 9th Conference of the Geological Society of Greece, Athens, 26-28 September (2 oral presentations).
- 16. 2000 1st Conference of the Committee of Economic Geology, Mineralogy and Geochemistry of the Geological Society of Greece: "Mineral Wealth and Environment", Kozani, 12-13 February.
- 17. 1997 4th Hydrogeological Conference of Greece, Thessaloniki, 14-16 November.
- 18. 1996 3rd Symposium of the Hellenic Society for Archaeometry, Athens, 6-9 September (1 oral presentation).
- 19. 1994 7th Conference of the Geological Society of Greece, Athens, 25-27 May.
- 20. 1993 2nd Symposium of the Hellenic Society for Archaeometry, Thessaloniki, 26-28 March.
- 21. 1992 6th Conference of the Geological Society of Greece, Thessaloniki, 25-27 May (1 oral presentation).
- 22. 1990 5th Conference of the Geological Society of Greece, Thessaloniki, 25-27 May.
- 23. 1988 4th Conference of the Geological Society of Greece, Athens, 25-27 May (1 oral presentation).

4.5.3. Meetings

- 1. 2017 Meeting: "The Contribution of geology to the society Geological Surveys of AUTh in the Municipality of Volvi", organized by the Faculty of Geology, in collaboration with the Municipality of Volvi and the Cultural Association of Vrasna, Stavros of Thessaloniki, 13th May (1 oral presentation).
- 2. 2007 Meeting: "Maronia Municipality Centre of Development and Culture", Maronia, 10th June (1 oral presentation).
- 3. 2003 Meeting of the Committee of Economic Geology, Mineralogy and Geochemistry of the Geological Society of Greece: "Aggregates and Building Stones". Thessaloniki, 11th April.

4.5.4. Participation at Training Courses-Workshops

- 1. 2014 MDRU Short Course: "Porphyry Cu(-Mo, Au) and Epithermal Au-Ag Deposits: Metallogeny, Alteration & Mineralization", by Dr. Thomas Bissig and Dr. Farhad Bouzari, MDRU-UBC Vancouver, Canada, in Sofia Bulgaria, 26th-27th August.
- 2. 2014 MDRU Short Course: "Tectonic Units and Geodynamic Processes of the Greater Alpine Collision Zone: Eastern Alps to Western Turkey", by Professor Stefan M. Schmid, Emeritus Professor, ETH Institut für Geophysik, Zürich, in Athens, 6th-7th June.
- 3. 2013 5th Thematic School on Conservation Science "Solutions to Questions of our Cultural Heritage by Physical and Chemical Methods in Theory and Practice" organized by the Vienna University of Technology, Austria, 17th-26th September.
- 4. 2011 "Organizing and writing of Research Proposals", organized by the Research Committee of the AUTH, Thessaloniki, 26th-30th September.
- 5. 2010 9th Freiberg Short Course in Economic Geology on "Magmatic Ni-Cu-PGE deposits: petrogenesis and exploration". University of Freiberg, Germany, 6th-10th December.
- 6. 2006- "Special Training Program Workshop for Adult Educators" for the Certification System of the National Accreditation Centre of Vocational Training Structures and Accompanying Support Services (E.KE.PI.S.). Thessaloniki
- 7. 1992 Participation at the Fluid Inclusions seminar: "Introduction to Fluid Inclusions Studies: Short Courses of Lectures and Practical Exercises", organized by the Eidgenossische Technische Hochshule (ETH), Zürich, Switzerland 2nd-5th February.

4.6. Stay at European Institutes and Universities for analytical methods training

- 1. Institut für Archëometrie of TU Bergakademie Freiberg, Germany, through the Exchange Program between Greece and Germany IKYDA 2001 (December 2002)
- 2. University of Sofia in Bulgaria, through the Inter-University Exchange Program between Universities of Sofia and Thessaloniki (June 2002): «Gold and elements of platinum group in mineral deposits in Bulgaria and Greece»
- 3. University of Sofia in Bulgaria, through the Inter-University Exchange Program between Universities of Sofia and Thessaloniki (December 2000): «Gold and elements of platinum group in mineral deposits in Bulgaria and Greece»
- 4. University of Cologne in Germany (December 1993)
- 5. Eidgenossische Technische Hochshule (ETH), Zurich, Switzerland (February 1992).
- 6. University of Sofia in Bulgaria, through the Inter-University Exchange Program between Universities of Sofia and Thessaloniki (February and March 1991)

- 7. Universities of Heidelberg, Karlsruhe and Stuttgart in Germany (December 1990)
- 8. "Industrisko Energetski Kombinat Kostolac", Kostolac of Yugoslavia through the Inter-University Student Exchange Program IASTE (August 1986)

4.7. Participation in Electoral Committees for Faculty members

Member of 15 Electoral Committees for the promotion of faculty members at the Universities of Thessaloniki (2 Faculty members), Athens (5 Faculty members), Patras (4 Faculty members), and Ionio (2 Faculty members) and at the Technical University of Athens (1 Faculty member) and Crete (1 Faculty member).

4.8. Reviewer in published works

4.8.1. International and National Journals Reviewer

Reviews according to Publons = 69

- 1. Acta Vulcanologica (2015)
- 2. Archaeological and Anthropological Sciences (2013, 2018, 2021)
- 3. Archaeological Prospection (2018, 2019, 2020)
- 4. Archaeometry (2011, 2012, 2013, 2018, 2020x2, 2022, 2023)
- 5. Bulletin of the Geological Society of Greece (2019, 2020)
- 6. Crystals (2022)
- 7. Economic Geology (2015)
- 8. Environment and Pollution (2013)
- 9. Environments (2019)
- 10. European Mineralogical Union Notes in Mineralogy (2016)
- 11. Geologia Croatica (2015)
- 12. Geological Magazine (2021)
- 13. Geosciences (2023)
- 14. International Journal of Environmental Research and Public Health (2020)
- 15. Journal of African Earth Sciences (2015, 2019, 2022)
- 16. Journal of Archaeological Science (2020)
- 17. Journal of Basic and Applied Research International (2015)
- 18. Journal of Building Engineering (2022)
- 19. Journal of Cultural Heritage (2017)
- 20. Journal of Geochemical Exploration (2016)
- 21. Journal of Geosciences (2021)
- 22. Journal of Taibah University for Science (2020x2)
- 23. Mineralium Deposita (2013, 2020)
- 24. Minerals (2019x3, 2020x3, 2021x4, 2022x2, 2023x2)
- 25. Neues Jahrbuch für Mineralogie / Journal of Mineralogy and Geochemistry (2013)
- 26. Open Geosciences (2017, 2018)
- 27. Ore Geology Reviews (2017, 2019, 2022x2, 2023)
- 28. Physics and Chemistry of Minerals (2023)
- 29. PLOS ONE (2023)
- 30. Romanian Journal of Mineral Deposits (2011)
- 31. Scientific Reports of Nature (2020)
- 32. Water (2020)

4.8.2. Conference Proceedings Reviewer

- 2023 Reviewer in an extended Abstract submitted at the Materials Proceedings of MDPI in the frame of the Conference RawMat 2023.
- 2018 Reviewer in a paper submitted at the 1st International Electronic Conference on Mineral Science (IECMS2018), section: Mineral Deposits, sponsored by the MDPI open access journal Minerals.
- 2016 Reviewer in papers submitted at the "14th International Conference of the Geological Society of Greece".
- 2015 Reviewer in papers submitted for the Special Volume in memoriam to Professor G. Eleftheriadis.
- 2014 Reviewer in papers submitted at the "10th International Hydrogeological Congress" of the Hellenic Chapter of International Association of Hydrogeologists and IAH Cyprus Association of Geologists and Mining Engineers.
- 2013 Reviewer in papers submitted at the "13th International Conference of the Geological Society of Greece".
- 2012 Reviewer in papers submitted at the International Conference: "Scientific Protection and Restoration of the Environment XI".
- 2010 Reviewer in papers submitted at the "XIX Congress of the Carpathian Balkan Geological Association".
- 2007 Reviewer in papers submitted at the "11th International Conference of the Geological Society of Greece".
- 2005 Reviewer in papers submitted at the "2nd Scientific Conference of the Committee of Economic Geology, Mineralogy and Geochemistry of the Geological Society of Greece".
- 2004 Reviewer in abstracts and papers submitted at the "10th International Conference of the Geological Society of Greece".
- 2004 Reviewer in extended abstracts submitted at the "5th International Symposium on Eastern Mediterranean Geology".
- 2000 Reviewer in papers submitted at the "1st Scientific Conference of the Committee of Economic Geology, Mineralogy and Geochemistry of the Geological Society of Greece".

4.8.3. Books and Special Volumes Reviewer

- 2012 Reviewer in papers published in the book: "Ecological Water Quality Water Treatment and Reuse". Voudouris K. and Voutsa D. (eds). In Tech, Rijeka, Croatia, 496 p.
- 2021 Reviewer in the book "The Mines of Cyprus. History and Development. A Contribution to the Recording and Study of the Contemporary Mining Industry of Cyprus" by Dr. Georgios Maliotis for the Publications of the University of Cyprus, 322 p.

4.9. External reviewer in Research Proposals

- 2012 Reviewer in a scientific proposal submitted at the Portuguese Foundation for Science and Technology (FCT).
- 2013 Reviewer in a scientific proposal submitted at the Israel Science Foundation (ISF).

- 2013 Reviewer in 10 scientific proposals submitted at the Portuguese Foundation for Science and Technology (FCT).
- 2014 Reviewer in a scientific proposal submitted at the State Scholarships Foundation (IKY) of Greece for the Program IKYDA 2015.
- 2018 Reviewer in a scientific proposal submitted at the GeoERA Secretariat and the Netherlands Organization for Scientific Research (NWO).
- 2019 Reviewer in 5 scientific proposals submitted at the General Secretariat for Research and Technology of Greece.
- 2019 Reviewer in a scientific proposal submitted at the Austrian Science Fund (FWF).
- 2020 Reviewer in a scientific proposal submitted in the frame of the "2nd Call for H.F.R.I. Research Projects for the support of Postdoctoral Researchers B' Phase» of the Hellenic Foundation for Research and Innovation.
- 2020 Reviewer in a scientific proposal submitted in the National Science Centre of Poland.
- 2021 Reviewer in 2 scientific proposals submitted at the IUGS Assessments UNESCO Global Geopark Nominations 2020/2021
- 2023 Reviewer in 1 scientific proposal submitted at the French National Agency for Research (ANR)

4.10. Editing

- 1. 2013-21 Editorial Board at the "Romanian Journal of Mineral Deposits".
- 2. Melfos V., Tarantola A., Voudouris P., Sakellaris A.-G. (2023). Guest Editors at the Special Issue "Geochemistry of Ore Deposits". Frontiers in Geochemistry, 2023 (https://www.frontiersin.org/research-topics/58454/geochemistry-of-ore-deposits)
- 3. Xenidis A., Komnitsas K., **Melfos V.** (2023). Guest Editors at the Special Issue "Exploration, Mining, and Processing of Minerals: Enabling the Clean Energy Transition". Minerals, 2023 (https://www.mdpi.com/journal/minerals/special_issues/5J5M686577)
- 4. **Melfos V.,** Voudouris P., Sakellaris A.-G. (2022). Guest Editors at the Special Issue "Economic Mineral Deposits: A Review". Minerals, 2022 (https://www.mdpi.com/journal/minerals/special_issues/EMDAR)
- 5. **Melfos V**., Voudouris P. (2020). Guest Editors at the Special Issue "Ore Mineralogy and Geochemistry of Rare Metal Deposits". Minerals, 2020 (https://www.mdpi.com/journal/minerals/special_issues/Rare_Metal_Deposits).
- 6. **Melfos V.**, Voudouris P. (2018). Guest Editors at the Special Issue "Magmatic-Hydrothermal Ore Deposits". Geosciences, 2017 (http://www.mdpi.com/journal/geosciences/special_issues/Ore_Deposits).
- 7. Voudouris P., Karampelas S., **Melfos V.,** Graham I. (2018). Guest Editors at the Special Issue "Mineralogy and Geochemistry of Gems". Minerals, 2017 (http://www.mdpi.com/journal/minerals/special issues/Gems).

- 8. Voudouris P., **Melfos V.** (2012). Guest Editors at the Special Issue "Advances in Rhenium Mineralogy, Geochemistry and Industrial Uses". Minerals, 2012 (http://www.mdpi.com/journal/minerals/special issues/rhenium mineralogy).
- 9. Christofides G., Kantiranis N., **Melfos V.**, Soldatos T. (2012). Editors at the Scientific Annals of the Faculty of Geology, School of Sciences, University of Thessaloniki. Special Volume 101, 145 p.
- 10. Chatzipetros A., **Melfos V.**, Marchev P. and Lakova I. (2010). Editors at the Abstracts volume of the XIX Congress of the Carpathian-Balkan Geological Association, Geologica Balcanica, 39 (1-2), 435 p., ISSN: 0324-0894.
- 11. Filippidis A., Christofides G., Georgakopoulos A., Albanakis K., Vouvalidis K., Kantiranis N., **Melfos V.**, Papazachos K. (2004). Editors at the Bulletin of the Geological Society of Greece, Volumes XXXVI/1-4, 2101 p.

4.11. Invited Lectures given at Seminars, Workshops and Summer schools

 20.5.2022 "The contribution of mineral wealth to the economic and social life at Kroussia of Kilkis. The case of Palatiano in antiquity" by Vasilios Melfos, Christos Stergiou, Georgia Stratouli

Invitation of the Ephorate of Antiquities of Kilkis, in the framework of the project "Europos-Palatiano-Stobi, European past and future cultural values», of the Cross-Border Cooperation Program INTERREG IPA CBC Greece - Republic of North Macedonia 2014-2020 ".

Vathi and Palatiano, Kilkis

2. 17.10.2019 "The rocks as building materials in the monuments"

Invitation Boulouki Group: Itinerant Workshop for the Traditional Building Techniques

Mouchoustiou Monastery, Plaka of Tzoumerka, Ioannina

3. 8.4.2019 "Minerals and rocks in the Aegean: a diachronic relationship with the evolution of civilization"

Invitation Open University of Thessaloniki in the frame of the seminars with a broader title: In the neighborhood of science

Thessaloniki History Center

4. 10.5.2019 "Minerals and rocks in the Aegean: a diachronic relationship with the evolution of civilization"

Invitation of CEE of Kilkis with the CEE of Stylida-Ypati in the framework of the National Environmental Education Network "Geo-environmental and Geomythological paths", entitled: "Geo-environmental routes to myth, legend and history"

Lecture Hall of the Austrian-Hellenic Tobacco Store of the Municipality of Kilkis

5. 27.2.2019	"The wonderful world of minerals" Invitation 1st PE.KE.S Central Macedonia, in the frame of the seminars for teachers in Science at AUTH Faculty of Geology, A.U.TH
6. 24.4.2018	"Minerals: the gifts of the earthquakes and the volcanoes in Aegean" Invitation: 2 nd GEL of Oreokastro in the frame of the European Programme e-HAND Erasmus+ "Enceladus" Lecture Hall of NOESIS
7.8-11.9.2015	"The Green Thessalian Stone (Verde Antico): quarrying techniques and uses" Invitation to the General Intensive School on Conservation Science Historical and Folklore Museum of Larissa, Greece
8. 29.11.2014	"Quarrying techniques in antiquity and analytical methods used in marble provenance studies" Invitation to the Workshop organized by the Volos Natural History Museum and the Ephorate of Prehistoric and Classical Antiquities of Volos. Lecture Hall of the Archaeological Museum of Volos
9. 25.9.2014	"New technologies in exploration of ore deposits" Invitation to the Technical Education on Resource Savings for Industrial Development (TE.R.S.I.D.), TEMPUS. University of Thessaloniki.
10. 29.8.2014	"Fluid inclusions application in the exploration of porphyry-epithermal deposits. Examples from NE Greece" Invitation to the 2 st Technical Meeting of the Western Tethyan Metallogeny Project (WTMP), Sofia, Bulgaria. Project of the Mineral Deposit Research Unit (MDRU), The University of British Columbia (UBC), Vancouver, Canada.
11. 14-18.7.2014	"Ancient white marbles: provenance studies and surface decay determination" Invitation to the General Intensive School on Conservation Science "Surface Processing of ceramic and cultural heritage materials" University of Seville - Spain
12.20.3.2014	"Mineral resources exploitation, sustainable development and environmental protection" Invitation BEST (Board of European Students of Technology) course on Technology University of Thessaloniki
13.17-26.9.2013	"C-O stable isotopic geochemistry as a tool for determining the

provenance of white marbles used in ancient Mediterranean" Invitation to the 5th Thematic School on Conservation Science "Solutions to Questions of our Cultural Heritage by Physical and Chemical Methods in Theory and Practice"

Vienna University of Technology - Austria

14.22-24.8.2013

"The Oligocene-Miocene intrusion-related Au systems at the Rhodope core complex, Greece"

Invitation to the 1st Technical Meeting of the Western Tethyan Metallogeny Project (WTMP), Izmir, Turkey

Project of the Mineral Deposit Research Unit (MDRU), The University of British Columbia (UBC), Vancouver, Canada

15.6-12.12.2011

"White marble in ancient buildings: quarrying techniques and provenance determination"

Invitation: Université Cadi Ayyad, Faculté des Sciences Semlalia, Marrakech, Morocco, Winter School 2011: L' Ecole Intesive sur les Sciences de la Conservation du Patrimoine (EISCP)

Musée de la Palmeraie

16. 27-28.12.2010

"Application of XRD, microscopy and stable isotopes for the provenance determination of ancient white marble artifacts"

Courses at the Postgraduate students of the "Implementation of a Master's Course on Cultural Heritage Safeguarding in Morocco" (144968-TEMPUS-2008-GR-JPCR)

17.21-22.7.2009

"Application of X-Ray Diffraction and optical Petrographic, Microscopy" Courses at the 3rd Residential Summer School on Conservation Science: "Chemistry and Culture Euro Mediterranean Cooperation in Research and Education" organized under the Lifelong Learning Erasmus Intensive Program.

University of Thessaloniki

18.24.6.2008

"Mineralogy, petrography and geochemistry of Neolithic stone artifacts and characterization of the raw materials provenance. Case studies from Greece"

Invitation: Yarmouk University, Irbid Jordan, TEMPUS program in collaboration with AUTh.

Vocational Seminar on Cultural Heritage Preservation

19.24.6.2008

"Ancient marble quarries in Greece and technology of stone extraction. Provenance studies of ancient white marble artifacts"

Invitation: Yarmouk University, Irbid Jordan, TEMPUS program in collaboration with AUTh.

Vocational Seminar on Cultural Heritage Preservation

4.12. Invited talks and speeches

1. 20.10.2020 "The continuous use of decorative stones in public and private buildings of Thessaloniki" Invitation: Aristotle Museum of Natural History of Thessaloniki (AMNHT) in the frame of the exhibition "Urban landscape. The space where modern man moves and is active - a constant challenge of man - nature" Lecture Hall of the AMNHT, Port of Thessaloniki 2. 28.11.2019 "Minerals and rocks of the Aegean: a permanent relationship with the development of the civilization" Invitation: Aristotle Museum of Natural History of Thessaloniki (AMNHT) in the frame of the exhibition "Minerals and Humans" Lecture Hall of the AMNHT. Port of Thessaloniki 3. 10.4.2019 "Decorative and ornamental stones in the monuments of Thessaloniki" Invitation: Association "Friends of the monuments of Thessaloniki" Lecture Hall of the Archaeological Museum of Thessaloniki "The Green Thessalian Stone and the guarries of Chasanbali" 4. 9.11.2018 Presentation of the Book Invitation: Regional Administration (Prefereia) of Thessaly and Ephorate of Antiquities of Larisa. Lecture Hall of the Diachronic Museum of Larisa 5. 21.2.2017 "The quarrying techniques and the uses of the famous during antiquity Green Thessalian Stone" Invitation: Archaeological Museum of Thessaloniki. Lecture Hall "M. Andronikos" of the Archaeological Museum of Thessaloniki 6. 16.4.2016 "Minerals and precious stones of Greece. The tiny treasures of the Greek mountains" Event: "The geological history and the mineral wealth of Pieria district" Department of Logistics of the TEI of Central Macedonia in collaboration with the Faculty of Geology AUTH, the Museum of Natural History of Volos and the Museum of the geological history of Olympos. Lectures Hall of the TEI in Katerini 7. 28.3.2014 "Porphyry type ore deposits in northern Greece and their relation with high grades in precious, rare and critical metals" SGA Baltic Students Chapter and Department of Economic Geology AGH - University of Science and Technology Kraków, Poland 8. 28.3.2014 "Economic crisis in Greece. Can the mineral resources play a key role in a sustainable development at one of the richest metallogenic provinces in south-eastern Europe?" SGA Baltic Students Chapter and Department of Economic Geology

AGH - University of Science and Technology Kraków, Poland

9. 28.3.2014 "Fluid inclusions as an exploration tool for hydrothermal deposits. Case studies from northern Greece" SGA Baltic Students Chapter and Department of Economic Geology AGH - University of Science and Technology Kraków, Poland 10. 20.3.2014 "Mineral resources exploitation, sustainable development and environmental protection" BEST (Board of European Students of Technology) Course on Technology, Thessaloniki 2014 University of Thessaloniki 11. 14.12.2013 "Minerals and rocks of Aegean: a permanent relationship with the development of the civilization" The Natural History Museum of the Lesvos Petrified Forest Lecture Hall of the Science Center and Technology Museum of Thessaloniki "NOESIS" 12. 22.5.2013 "Water management in antiquity at Retziki of Thessaloniki" Regional Association of Teachers for Environmental Education (PEKPE) of Central Macedonia, Greece A High School of Pefka "The quarrying techniques and the uses of the famous during antiquity Green 13.15.2.2013 Thessalian Stone" Invitation: The Volos Natural History Museum and the Ephorate of Prehistoric and Classical Antiquities of Volos. Lecture Hall of the Archaeological Museum of Volos 14. 22.9.2012 "Minerals and precious stones of Greece". Invitation: The Volos Natural History Museum. Amphitheater "Metaxourgeion" Municipality of Volos city 15. 18-19.5.12 "The ancient quarries in the area of Larisa as part of the Hellenic Cultural heritage. Provenance studies of marble archaeological findings" - Tour at the ancient quarries of Tempi and Chasanbali. Invitation: IE' Ephorate of Prehistoric and Classical Antiquities of Larisa, in the frame of the International Day of Museums. Amphitheater of the Diachronic Museum of Larisa 16. 22.4.2012 "Mineral resources, environment and economic development. Can they be combined?" Invitation: School of Sciences of the University of Thessaloniki, in the frame of the International Mother Earth Day. Building of Meteorology, AUTh

"Minerals of the Greek Caves and conditions of formation"

17. 22.2.2012

"The treasures of Kissavos - A diachronic relation of the mineral wealth and 18. 21.8.2010 the Greek culture" Invitation: Municipality of Melivoia and the 7th Ephorate of the Byzantine Antiquities of Larisa Open Theatre of Velika 19. 10.10.2010 "The Green Thessalian Stone and the quarries of Chasanbali" Presentation of the Book Invitation: Mayor of Nesson Municipality Primary School of Kalochorion 20. 7.3.2009 "The geological-mineralogical heritage of Maronia. Geotopes and archaeological sites" Invitation: Environmental Education Centre of Maronia, in the frame of the Seminar "The European path E6" **Environmental Education Centre of Maronia** 21. 26.3.2008 "Minerals and precious stones in N. Greece -Minerals of the Caves" Invitation: Hellenic Speleological Society, Branch of Northern Greece Faculty of Geology AUTh 22. 10.6.2007 "The mineral wealth of Maronia: a proposal for the establishing of a Natural History Museum" Invitation: Municipality of Maronia, Meeting "Municipality of Maronia, a centre of development and culture" Maronia 23. 17.1.2007 "Minerals and precious stones: the hidden treasures of the Greek mountains" Invitation: Hellenic Society of Climbers, Thessaloniki Hall of the Society 24. 30.11.2005 "The geological heritage of Thrace. An ongoing relationship of culture to the mineral wealth" Invitation: Hellenic Society of Climbers, Thessaloniki Hall of the Society 25. 31.10.2004 "The Natural History Museum of Delasalle College: Classification, organizations and record of the mineral, rocks and fossil collections" Invitation: Director of Delasalle College during the Opening of the Natural History Museum Delasalle College 26. 7.5.2004 "Geology and Mineral Wealth of Milos island" Invitation: 1st TEE of Stavroupoli, Thessaloniki, in the frame of the

Invitation: Hellenic Speleological Society, Branch of Northern Greece

Faculty of Geology, AUTh

Environmental Project: "Renewable energy sources. The geothermal field of Milos island"

Cultural Foundation of Stavroupoli

27. 17.3.2004 "Maronia: Geology, Mineral Wealth and Integration of Geotopes and Geoarchaeological sites"

Invitation: Rodopi Prefecture of the utilization of the Maronia cave

Cultural Centre of Maronia

28. 5.12.2002 "Geology and genesis of the Tertiary porphyry copper-molybdenum deposits in the Rhodope metallogenetic province, Northern Greece"

Invitation: Professor Th. Seifert

Institute of Mineralogy, Freiberg University of Mining and Technology, Germany

29. 22.2.2002 "Gemstones: research and prospects for their detection in Macedonia and Thrace"

Invitation: Geological Society of Greece "Geology and Society. The contribution of geological exploration in northern Greece" for the 50 Years of the GSG.

History Centre of Thessaloniki City

30. 13.4.2000 "Quarrying and stone processing in Antiquity-Ancient Quarries"
Invitation: 1st SEK of Stavroupoli, Thessaloniki, specialty of "Maintenance Art and Archaeological Objects"
1st TEE of Stavroupoli

From 2020 to 2024 I have given a large number of lectures and talks on minerals, rocks, mineral deposits, ancient quarries, and ancient decorative stones to organizations such as the Friends of Thessaloniki Monuments, the Association of Guides of Thessaloniki, the Office of Environmental Education of the Directorate Primary and Secondary Education of Western Thessaloniki, the 1st PE.K.ES. of Central Macedonia of the Regional Directorate of Primary and Secondary Education, the Environmental Education Center of Kilkis (KPE Kilkis), the ELISME, the AMFITH, the Friends of Astronomy Club of Thessaloniki and the Thessaloniki Walking Tours, while I participated in the event "The Harmony of the Sounds and thee Stones "organized by the Faculty of Geology of the University of Thessaloniki in collaboration with the Dean of the School of Sciences at the University of Thessaloniki and the Aristotle Museum of Natural History in Thessaloniki.

All these activities are aimed at disseminating the Science of Geology to the general public and have been attended by hundreds of people.

4.13. Participation in the Organization of Conferences-Meetings-Lectures

- 1. Member of the Organizing Committee of the 2nd International Conference on Raw Materials and Circular Economy (RawMat 2023), Athens, Greece, 28 August 02 September 2023 (https://www.rawmat2023.ntua.gr).
- 2. Member of the Organizing Committee of the Workshop "Epithermal Gold Deposits: Tectonics, magmatism and alterations", organized by the AUTh SEG Student Chapter, at

- the University of Thessaloniki, 20th February 2023.
- Member of the Organizing Committee of the Workshop «Biological diversity in past geological and historical periods» organized by the School of Sciences of the University of Thessaloniki at the Ceremony Hall, Old Building of Faculty of Philosophy, 29th November 2017.
- 4. Member of the Organizing Committee of the Workshop «Urban Environment and Sustainable Development. School of Sciences (AUTh): the comparative advantage of the city» organized by the School of Sciences of the University of Thessaloniki, 2nd October 2017.
- 5. Member of the Organizing Committee of the Workshop "Exploration and Exploitation of Mineral Resources since Antiquity" organized by the Faculty of Geology, AUTh, and the AUTh SEG Student Chapter, at the University of Thessaloniki, 25th April 2017.
- Member of the Organizing Committee of the Workshop "New ideas and methods of Tectonic Geology in applied research - examples and applications" organized by the Faculty of Geology, AUTh, and the AUTh SEG Student Chapter, at the University of Thessaloniki, 17th February 2017.
- 7. Member of the Organizing Committee of the Workshop "Latest Developments in Research and Exploitation of Hydrocarbons in Greece and Cyprus" organized by the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology, AUTh, at the University of Thessaloniki, 6th April 2016.
- 8. Member of the Organizing Committee of the Workshop-Seminar "The formation of magmatic-hydrothermal ore deposits: from magmas to exploration" organized by the AUTh SEG Student Chapter in collaboration with the Department of Mineralogy-Petrology-Economic Geology, at the University of Thessaloniki, 16th October 2015.
- 9. Member of the Organizing Committee of the Workshop-Seminar "Integrated Geophysical Models. Theory, examples and implications on creativity", organized by the European Association of Geoscientists and Engineers (EAGE) in collaboration with the Faculty of Geology, at the University of Thessaloniki, 6th March 2015.
- 10. Member of the Organizing Committee of the Workshop-Seminar "Basin and Petroleum Systems Modeling. Technology and Applications for Petroleum Exploration Risk and Resource Assessments", organized by the European Association of Geoscientists and Engineers (EAGE) in collaboration with the Faculty of Geology, at the Telloglion Foundation, Thessaloniki, 26th March 2013.
- 11. Organizer of the talk of Professor Ladislav Palinkas, Department of Geology, University of Zagreb, Croatia, entitled: Genesis of vein-stockwork cryptocrystalline magnesite from the Dinaride ophiolites. Faculty of Geology, AUTh, 28th September 2012.
- 12. Organization of the talks of Professor Paul Spry, Department of Geological and Atmospheric Sciences, Iowa State University, USA, in collaboration with the Society of Economic Geologists (SEG), the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology, AUTh and the Committee of Economic Geology, Mineralogy and Geochemistry of the Geological Society of Greece. Faculty of Geology, AUTh, 10th May 2012.
- 13. Member of the Organizing Committee of the Conference "Research, exploration and

- exploitation of hydrocarbons in Greece: past, present, future", organized by the European Association of Geoscientists and Engineers (EAGE) in collaboration with the Faculty of Geology, Thessaloniki, 16th March 2012.
- 14. Member of the Organizing Committee of the Meeting: "Konstantinos Soldatos The Man, the Scientist, the Professor", Faculty of Geology, AUTh, 20th January 2012.
- 15. Organizer of the Workshop-Seminar "Geological storage of CO₂", organized by of the European Association of Geoscientists and Engineers (EAGE) in collaboration with the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology, AUTh, Thessaloniki, 14th March 2011.
- 16. Treasurer of the Organizing Committee of the XIX Conference of the Carpathian Balkan Geological Association, Thessaloniki, 23rd-26th September 2010.
- 17. Organizer of the Workshop-Seminar "What Energy Future after the World Oil Production Peak?", organized by the European Association of Geoscientists and Engineers (EAGE) in collaboration with the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology, AUTh, Thessaloniki, 18th February 2010.
- 18. Member of the Organizing Committee of the 2nd Conference of the Committee of Economic Geology, Mineralogy and Geochemistry of the Geological Society of Greece, Thessaloniki, 7th-9th October 2005.
- 19. Member of the Organizing Committee of the 10th International Conference of the Geological Society of Greece, Thessaloniki 15th-17th April 2004.
- 20. Member of the Organizing Committee of the Meeting of the Committee of Economic Geology, Mineralogy and Geochemistry of the Geological Society of Greece: "Aggregates and Building Stones", Thessaloniki, 11th April 2003.
- 21. Member of the Organizing Committee of the 1st Conference of the Committee of Economic Geology, Mineralogy and Geochemistry of the Geological Society of Greece, "Mineral Wealth and Environment of Western Macedonia, Greece", Kozani 12th-13th February 2000.
- 22. Member of the Secretariat of the 2nd Symposium of the Hellenic Society of Archaeometry "Archaeometric and Archaeological Investigations in Macedonia and Thrace", Thessaloniki 26th-28th March 1993.

4.14. Participation in the Organization of Field Trips

- 1. 2019 Co-organizing a 15-days Field Trip at ore deposits of Bulgaria and N. Greece for the students and the Professors of the ETH Zurich. 16th-30th June 2019.
- 2. 2019 Organizing a 6-days Field Trip at ore deposits of N. Greece for the students and the Professors of the University "St. Kliment Ohridski", Sofia, Bulgaria. 23th-28nd June 2019.
- 3. 2016 Organizing a 3-days Field Trip at gold ore deposits in Thrace for the students and the Professors of the University "St. Kliment Ohridski", Sofia, Bulgaria. 4th-6nd November 2016.
- 4. 2014 Co-organizing with P. Voudouris an one-day Field Trip at the ore deposits of

Lavrion in the frame of the MDRU Short Course: "Tectonic Units and Geodynamic Processes of the Greater Alpine Collision Zone: Eastern Alps to Western Turkey" in Athens, 8th June 2014.

- 5. 2013 Co-organizing (P. Voudouris, V. Melfos, G. Falalakis, T. Baker) a 3-days Field Trip at gold ore deposits in Thrace and Chalkidiki for the students and the Professors of the Mineral Deposit Research Unit (MDRU), University of British Columbia (UBC), Vancouver, Canada. 16th-18th May 2013.
- 6. 2012 Organizing a 4-days Field Trip at gold ore deposits in Thrace and Chalkidiki for the students and the Professors of the University "St. Kliment Ohridski", Sofia, Bulgaria. 19th-22nd October 2012.
- 7. 2001 Organizing a 3-days Field Trip at ore deposits in Macedonia and Thrace of the students of the University "St. Kliment Ohridski" and the University of "Mining and Geology" of Sofia, Bulgaria, 17th-19th October 2001.

4.15. Classification and organizing the collection of minerals and rocks, AUTH

According to the decision of the assembly of the Department of Mineralogy-Petrology-Economic Geology (No 2/25-10-2002) I participate in the committee for reorganization and classification of the mineral and rock collections of the Department of Mineralogy-Petrology-Economic Geology. A digital database of this collection was created to be used for educational purposes and for social purposes. So far, with the help of students from the Faculty of Geology, about 4,000 minerals were recorded, photographed and cataloged which will be available on the Department's website.

4.16. Participation at Exhibitions of Minerals and Material from Ancient Quarries and Classification and Organization of Mineral Exhibitions

- 1. Collection and organizing of the Mineral, Rock and Ore Exhibition for the Meteora Geological History Museum, Kastraki Kalapmaka, 2016.
- 2. Classification of the Mineral and Rock Collection of the Folk and Natural History Museum of Vrasna, invited by the Volvi Municipality, 2014.
- 3. Contribution with photographs from ancient quarries for the Temporary Exhibition about Conservation at the Museum of Byzantine Culture of Thessaloniki, invited by the Museum Director, Mrs. Agathoniki Tsilipakou, 2012.
- 4. Contribution at the Mineral Collection of the Promotion Center of the Agios Georgios Hill of Kilkis, invited by Professor E. Tsoukala, 2012.
- 5. Classification of the Mineral and Rock Collection of the Natural History Museum of Nea Kalindoia (Kalamoto), of the Langadas Municipality, 2009.
- 6. Organizing and classification of the Mineral and Rock Collection of the Museum of Mineralogy and Petrology of the Aridaia Municipality of Pella Prefecture, in collaboration

with Professor G. Eleftheriadis, April-May 2006.

- Organizing and classification of the Mineral and Rock Collection of the Department of Mineralogy-Petrology-Economic Geology, Faculty of Geology, AUTh, 2003-2008 (in progress).
- 8. Organizing and classification of the Mineral, Rock and Fossil Collection of the Natural History Museum of Delasalle College in Pefka of Thessaloniki. 2003-2004. Editor of the information sheet about the museum and production of the audiovisual material (DVD) for the information of the visitors.
- 9. Contribution to the Exhibition "Water Power in the pre-industrial era in Northern Greece" of the Folk life and Ethnological Museum of Macedonia-Thrace, January 2003.
- 10. Collection of mineral, rock and ore samples from Thrace for the Natural History Museum of Maronia, Rhodopi prefecture, September 2002.
- 11. Collection and organizing of the Mineral, Rock and Geological Exhibition for the Natural History Museum and the Information Centre for Rhodope in Paranesti of Drama, July-August 1999.
- 12. Organizing of the Mineral, Rock and Fossil Collection at the Macedonian Cultural Society "TECHNI", Kilkis, September 1996.
- 13. Participation with samples at the 1st International Exhibition of Minerals and Fossils of the Society of Greek Mineral and Fossils Collectors, in Zapion, Athens, October 1992.

4.17. Professional Memberships

- 1. Society of Geology Applied to Mineral Deposits (SGA)
- 2. Society of Economic Geologists (SEG) Fellow Member since 2014
- 3. Geological Society of Greece (EGE) Member of the Mineral Raw Materials committee since 2023
- 4. Committee of Economic Geology, Mineralogy and Geochemistry of the Geological Society of Greece Treasurer of the Committee since 1998
- 5. Association of Greek Geologists (SEGG)
- 6. Geotechnical Chamber of Greece (GEOTEE)

5. PUBLICATIONS

5.1. Theses

5.1.1. Diploma Thesis

Melfos V. and Parlantza I. (1988). Geological investigations of the coastal phenomena in Sithonia peninsula, Chalkidiki. Diploma Thesis. Department of Geology and Geography, the University of Thessaloniki. 56 p (in Greek).

5.1.2. Doctoral Thesis

Melfos V. (1995). Investigation of the Base and Precious Metals at the Circum Rhodope Belt in Thrace. Doctoral Thesis. Scientific Yearbook of the Faculty of Geology, University of Thessaloniki, N° 30, 289 p (in Greek).

5.2. Papers in refereed international Journals

- **5.2.1.** Vavelidis M., Gialoglou G., **Melfos V**., Wagner G.A. (1996). Goldgrube in Palaea Kavala/Griechenland: Entdeckung von Skaptehyle? Erzmetall: The World of Metallurgy, 49, 547-554.
- **5.2.2.** Vavelidis M., **Melfos V.** (1997). Two plumbian tetrahedrite-tennantite occurrences from Maronia area (Thrace) and Milos island (Aegean sea), Greece. Eur.J. Mineral., 9, 653-657. https://doi.org/10.1127/ejm/9/3/0653
- **5.2.3. Melfos V.,** Vavelidis M., Christofides G., Seidel E. (2002). Origin and evolution of the Tertiary Maronia porphyry copper-molybdenum deposit, Thrace, Greece. Mineralium Deposita, 37, 648-668. https://doi.org/10.1016/j.gexplo.2023.107336
- **5.2.4.** Vavelidis M., **Melfos V.** (2004) Bi-Ag-bearing tetrahedrite-tennantite in the Kapsalina copper mineralisation, Thasos island, Northern Greece. Neues Jahrbuch für Mineralogie Abhandlungen (Journal of Mineralogy and Geochemistry), 180 (2), 149-169. https://doi.org/10.1127/0077-7757/2004/0180-0149
- **5.2.5.** Voudouris P., Katerinopoulos A., **Melfos V.** (2004). Alpine-type fissure minerals in Greece. Documenta Naturae, 151, 23-45.
- **5.2.6.** Voudouris P., **Melfos V.,** Spry P.G., Bonsall T., Tarkian M., Economou-Eliopoulos M. (2008). Mineralogical and fluid inclusion constraints on the evolution of the Plaka intrusion-related ore system, Lavrion, Greece. Mineralogy and Petrology, 93, 79-110. https://doi.org/10.1007/s00710-007-0218-0
- **5.2.7.** Voudouris P., **Melfos V.,** Spry P.G., Bonsall T., M. Tarkian, Solomos Ch. (2008). Carbonate-replacement Pb-Zn-Ag±Au mineralization in the Kamariza area, Lavrion, Greece: Mineralogy and thermochemical conditions of formation. Mineralogy and Petrology, 94, 85-106. https://doi.org/10.1007/s00710-008-0007-4
- **5.2.8. Melfos V.** (2008). "Green Thessalian Stone": The Byzantine quarries and the use of a unique architecture material from Larisa area, Greece. Petrographic and geochemical characterization. Oxford Journal of Archaeology, 27(4) 387-405. https://doi.org/10.1111/j.1468-0092.2008.00313.x
- 5.2.9. Voudouris P.C., Melfos V., Spry P.G., Bindi L., Kartal T., Arikas K., Moritz R., Ortelli M.

- (2009). Rhenium-rich molybdenite and rheniite (ReS₂) in the Pagoni Rachi-Kirki Mo-Cu-Te-Ag-Au deposit, Northern Greece: Implications for the rhenium geochemistry of porphyry style Cu-Mo and Mo mineralization. Canadian Mineralogist, 47, 1013-1036. https://doi.org/10.3749/canmin.47.5.1013
- **5.2.10.** Giouri A., Vavelidis M., **Melfos V.,** Christophoridis C. (2010). Geochemical study of the Bogdanas River waters at the Assiros-Lagada area, Northern Greece. Journal of Environmental Protection and Ecology, 11, 424-433.
- **5.2.11. Melfos V.,** Helly B., Voudouris P. (2011). The ancient Greek names "Magnesia" and "Magnetes" and their origin from the magnetite occurrences at the Mavrovouni mountain of Thessaly, central Greece. A mineralogical-geochemical approach. Archaeological and Anthropological Sciences, 3, 165-172. https://doi.org/10.1007/s12520-010-0048-6
- **5.2.12.** Fornadel A.P., Spry P.G., **Melfos V.,** Vavelidis M., Voudouris P. (2011). Is the Palea Kavala Bi-Te-Pb-Sb±Au district, northeastern Greece, an intrusion-related system? Ore Geology Reviews, 39, 119-133. https://doi.org/10.1016/j.oregeorev.2011.01.002
- **5.2.13.** Lazaridis G., **Melfos V.,** Papadopoulou L. (2011). The first cave occurrence of orpiment (As₂S₃) from the sulfuric acid caves of Aghia Paraskevi (Kassandra Peninsula, N. Greece). International Journal of Speleology, 40(2), 133-139. https://doi.org/10.5038/1827-806X.40.2.6
- **5.2.14.** Bonsall T.A., Spry P.G., Voudouris P., Tombros S., Seymour K., **Melfos V.** (2011). The Geochemistry of Carbonate-Replacement Pb-Zn-Ag Mineralization in the Lavrion District, Attica, Greece: Fluid Inclusion, Stable Isotope, and Rare Earth Element Studies. Economic Geology, 106, 619-651. https://doi.org/10.2113/econgeo.106.4.619
- **5.2.15.** Voudouris P., **Melfos V.,** Spry P.G., Moritz R., Papavassiliou C., Falalakis G. (2011). Mineralogy and geochemical environment of formation of the Perama Hill high-sulfidation epithermal Au-Ag-Te-Se deposit, Petrota Graben, NE Greece. Mineralogy and Petrology, 103, 79-100. https://doi.org/10.1007/s00710-011-0160-z
- **5.2.16.** Fornadel A.P., Voudouris P., Paul G.S., **Melfos V.** (2012). Mineralogical, stable isotope, and fluid inclusion studies of spatially related porphyry Cu and epithermal Au-Te mineralization, Fakos Peninsula, Limnos Island, Greece. Mineralogy and Petrology, 105, 85-111. https://doi.org/10.1007/s00710-012-0196-8
- **5.2.17. Melfos V.**, Voudouris P.C. (2012). Geological, Mineralogical and Geochemical Aspects for Critical and Rare Metals in Greece. Minerals, 2, 300-317. https://doi.org/10.3390/min2040300
- **5.2.18.** Voudouris P., **Melfos V.** (2013). Aluminum-phosphate-sulfate (APS) minerals in the sericitic advanced argillic alteration zone of the Melitena porphyryepithermal Mo-Cu±Au±Re prospect, western Thrace, Greece. Neues Jahrbuch für Mineralogie Abhandlungen (Journal of Mineralogy and Geochemistry), 190/1, 11-27. https://doi.org/10.1127/0077-7757/2012/0227
- **5.2.19.** Voudouris P.C., Spry P.G., Mavrogonatos C., Sakellaris G-A., Bristol S.K., **Melfos V.,** Fornadel A.P. (2013). Bismuthinite derivatives, lillianite homologues and bismuth sulfotellurides as indicators of gold mineralization in the Stanos shear-zone related deposit, Chalkidiki, Northern Greece. Canadian Mineralogist, 51, 119-142.

https://doi.org/10.3749/canmin.51.1.119

- **5.2.20.** Voudouris P., **Melfos V.,** Spry P.G., Bindi L., Moritz R., Ortelli M. Kartal T. (2013). Extremely Re-Rich Molybdenite from Porphyry Cu-Mo-Au Prospects in Northeastern Greece: Mode of occurrence, causes of enrichment, and implications for gold exploration. Minerals, 3, 165-191. https://doi.org/10.3390/min3020165
- **5.2.21.** Voudouris P., **Melfos V.**, Spry P.G., Kartal T., Schleicher H., Moritz R., Ortelli M. (2013). The Pagoni Rachi/Kirki Cu-Mo±Re±Au deposit, Northern Greece: Mineralogical and fluid inclusion constrains on the evolution of a telescoped porphyry-epithermal system. Canadian Mineralogist, 51, 411-442. https://doi.org/10.3749/canmin.51.2.253
- **5.2.22.** Spry P., Mathur R.D., Bonsall T.A., Voudouris P.C., **Melfos V.** (2014). Re-Os isotope evidence for mixed source components in carbonate-replacement Pb-Zn-Ag deposits in the Lavrion district, Attica, Greece. Mineralogy and Petrology, 108, 503-513. https://doi.org/10.1007/s00710-013-0314-2
- **5.2.23.** Stratouli G., Sarpaki A., Ntinou M., Kotjabopoulou E., Theodoropoulou T., **Melfos V.**, Andreasen N.H., Karkanas P. (2014). Dialogues between bioarchaeological, geoarchaeological and archaeological data: approaches to understanding the Neolithic use of Drakaina Cave, Kephalonia Island, Western Greece. Aegaeum, 37, 23-32.
- **5.2.24.** Bristol S.K., Spry P.G., Voudouris P.C., **Melfos V.,** Mathur R.D., Fornadel A.P., Sakellaris G.A. (2015). Geochemical and geochronological constraints on the formation of shear-zone hosted Cu-Au-Bi-Te mineralization in the Stanos area, Chalkidiki, northern Greece. Ore Geology Reviews, 66, 266-282. https://doi.org/10.1016/j.oregeorev.2014.11.001
- **5.2.25.** Kołodziejczyk J., Pršek J., **Melfos V.,** Voudouris P., Maliqi F., Kozub-Budzyń G. (2015). Bismuth minerals from the Stan Terg deposit (Trepça, Kosovo). Neues Jahrbuch für Mineralogie Abhandlungen (Journal of Mineralogy and Geochemistry), 192/3, 317-333. https://doi.org/10.1127/njma/2015/0288
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5.8. Books

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- **5.10.4.**Voudouris P., **Melfos V**. (2014). Intrustion related polymetallic ore system of Lavrion, Southern Attica, Greece, In: A. Miskovic (Editor), Field Guide: MDRU Short Course 80, June 7, 2014, Athens, Greece: MDRU, The University of British Columbia, 68 p.
- **5.10.5.**Voudouris P.C., Siron C.R., Márton I., **Melfos V.**, Baker T., Spry P.G. (2016) Eocene to Miocene Hydrothermal Deposits of Northern Greece and Bulgaria: Relationships

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