17th INTERNATIONAL CONGRESS of the Geological Society of Greece

GEOLOGICAL SOCIETY OF GREECE • 1951 •

Mytilene, Lesvos Greece
28-31 May 2025
GSG2025

PROGRAMME

ORGANIZED BY:

UNIVERSITY OF THE AEGEAN

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NATURAL HISTORY MUSEUM OF THE LESVOS PETRIFIED FOREST

17th INTERNATIONAL CONGRESS of the Geological Society of Greece

ORGANIZED BY:

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NATURAL HISTORY MUSEUM OF THE LESVOS PETRIFIED FOREST

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Ο.Α.Σ.Π. Οργανισμός Αντισεισμικού Σχεδιασμού & Προστασίας

ΕΛΛΗΝΙΚΗ ΑΡΧΗ ΓΕΩΛΟΓΙΚΩΝ & ΜΕΤΑΛΛΕΥΤΙΚΩΝ ΕΡΕΥΝΩΝ Ε·Α·Γ·Μ·Ε

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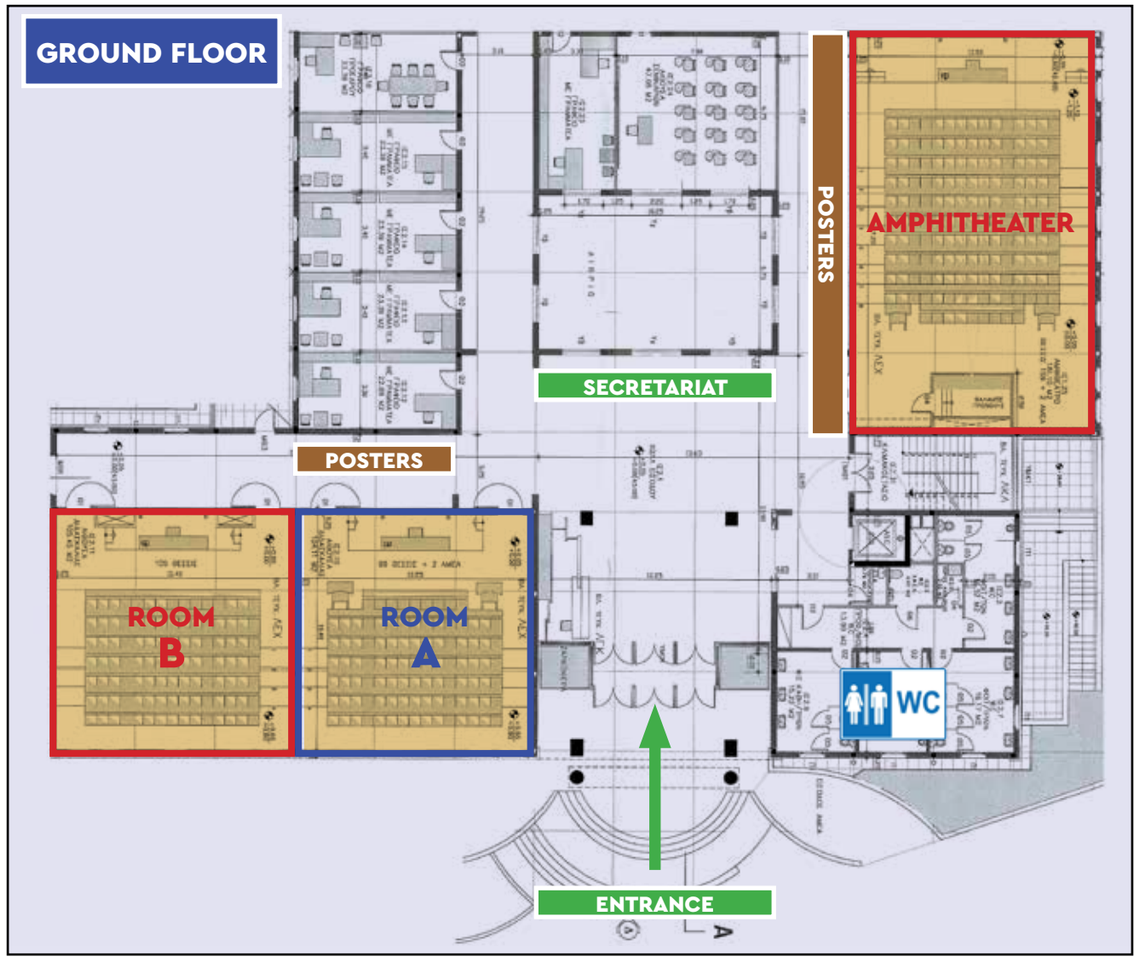
unesco Chair on Geoparks and sustainable development of insular and coastal areas.

UNIVERSITY OF THE AEGEAN

CONFERENCE VENEU PLAN



PROGRAMME AT A GLANCE

University of the Aegean / Geography Department

WEDNESDAY 28 MAY 2025

		AMPHITHEATRE	ROOM A	ROOM B	ROOM C	ROOM D
1	09.00–10.00	WELCOME and REGISTRATION				
2	10.00–10.30	PLENARY SESSION KEYNOTE: LECTURE				
	10.30–11.00	COFFEE BREAK				
3	11.00–13.30	G13 Seismology-Geophysics-Applied Geophysics	G10 Geological Heritage, Geodiversity Geo-conservation-Geoparks	G09 Geochemistry & Geochronology	G16 GIS & Geo-informatics	G19 Marine Geology & Oceanography
	13.30–14.30	LUNCH BREAK				
4	14.30–16.30	G13 Seismology-Geophysics-Applied Geophysics	G10 Geological Heritage Geodiversity Geo-conservation – Geoparks	G14 Geosciences, Health Environment & sustainable development	G26 Remote Sensing – Earth observation	S.7 Tackling Water Scarcity in Greece: New approaches & case studies for arid persons
	16.30–17.00	COFFEE BREAK				
	18.00–20.00	OPENING CEREMONY Mytilene Municipal Theatre				
	20.30–22.30	WELCOME DINNER & PARTY PLAZ RESTAURANT "TSAMAKIA"				

THURSDAY 29 MAY 2025

		AMPHITHEATRE	ROOM A	ROOM B	ROOM C	ROOM D
5	09.00–09.30	KEYNOTE LECTURE				
6	09.30–11.00	S11 The 2024–2025 Santorini volcano-seismic crisis: Origin, Impacts & Consequences	G24 – G27 Palaeontology Stratigraphy & Sedimentology	S.5 Engineering Geology & Infrastructure Projects	G15 Geothermal Energy	
	11.00–11.30	COFFEE BREAK				
7	11.30–13.30	S11 The 2024–2025 Santorini volcano-seismic crisis: Origin, Impacts & Consequences	G24 – G27 Palaeontology Stratigraphy & Sedimentology	S.6 Applied Geology & Geohazards	G.11 Geology & Education	G21 – G23 Minerology, Petrology, Volcanology Ore Deposits & Mineral Exploration
	13.30–14.30	LUNCH BREAK				
8	14.30–16.00	S11 The 2024–2025 Santorini volcano-seismic crisis: Origin, Impacts and Consequences	G24 – G27 Palaeontology Stratigraphy & Sedimentology	G06 Engineering Geology	G12 Geomorphology Quaternary Geology and Speleology	G21 – G23 Minerology, Petrology, Volcanology Ore Deposits & Mineral Exploration
	16.00–16.30	COFFEE BREAK				
9	16.30–18.00	S.1 Central Ionian & Corinth Gulf: a rapidly deforming area	G24 – G27 Palaeontology Stratigraphy & Sedimentology	G06 Engineering Geology	G04 Climatology-Meteorology	
10	18.00–19.30	Special session of the Association of the Greek Geologists With the support of the Geological Society of Greece and the Geotechnical Chamber of Greece ***"Strategic and critical mineral raw materials:*** ***Mining approach and prospects for their exploitation in Greece"***				

17th INTERNATIONAL CONGRESS
of the Geological Society of Greece

FRIDAY 30 MAY 2025

		AMPHITHEATRE	ROOM A	ROOM B	ROOM C	ROOM D
11	09.00–09.30	KEYNOTE: LECTURE				
12	09.30–11.30	G.22 Natural Hazards	G.28 Structural Geology, Tectonics & Geodynamics	G.17 Hydrogeology	S.10 Geo-conseravation & Geoparks	S.4 Earthquake Geology
	11.30–12.00	COFFEE BREAK				
13	12.00–14.00	G.22 Natural Hazards	G.01 Active Tectonics	G.17 Hydrogeology	S.9 Geotourism & Geoparks	S.12 Aspects of Natural Hazards & Disaster Mitigation
		LUNCH BREAK				
14	14.00–15.00	CLOSING CEREMONY OF THE 17th INTERNATIONAL CONGRESS OF THE GEOLOGICAL SOCIETY OF GREECE				
	18.30–20.30	SPECIAL PARALEL OPEN SESSION 8 YEARS AFTER THE LESVOS 2017 EARTHQUAKE – LESSONS LEARNED Under the Auspices of E.P.P.O.				
		MYTILENE MOUNICIPAL THEATRE				

SATURDAY 31 MAY 2025
FIELD EXCURSION: THE GEOLOGICAL MONUMENTS AND THE PETRIFIED FOREST

DEPARTURE: 8.30 SAPPHO SQUARE

Subjects:

- **Geology of Lesvos**
- **Active faults and Hot springs of Geras Gulf**
- **Tethyan Ophiolites Nappe**
- **Miocene volcanic sequence-Domes and Calderas**
- **The Lesvos Petrified Forest – Excavation sites along the Kalloni Sigri Road**
- **The Petrified Forest Park**

LUNCH

- **The Natural History Museum of the Lesvos Petrified Forest**
- **Petra and Molyvos: The Lepetymnos Volcano and the Geothermal field**

University of the Aegean, Mytilene

Wednesday, May 28th

		AMPHITHEATRE
1	09:00–10:00	**Session 1: Welcome and Registration**
	09:30–10:00	**Welcome Greetings**
2	10:00–10:30	**Session 2: Keynote Lecture** *Jakob Walløe Hansen, Chair of the Geological Society of Denmark – UNESCO Global Geopark Odsherred* **UNESCO Global Geoparks – a proper connection**
10:30–11:00		**COFFEE BREAK**

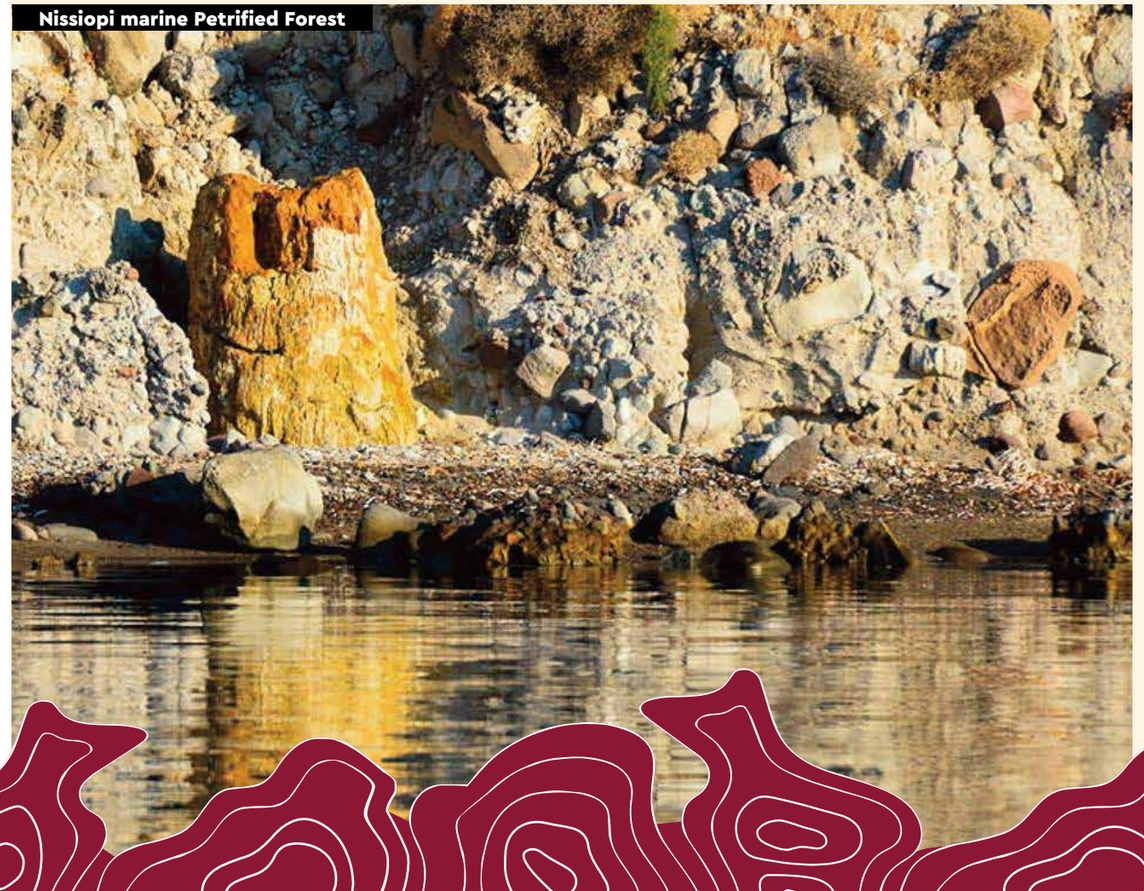
	AMPHITHEATRE	ROOM A	ROOM B	ROOM C	ROOM D
3	**11:00–13:30 Session 3A: G02 Applied Geophysics / G13 Geophysics – Seismology**	**11:00–13:30 Session 3B: G10 Geological Herritage – Geodiversity – Geoconservation – Geoparks**	**11:00–13:30 Session 3C: G09 Geochemistry and Geochronology**	**11:00–13:30 Session 3D: G16 -GIS and Geoinformatics**	**11:00–13:30 Session 3E: G19 Marine geology and Oceanography**
11:00	*Ioannis Grendas and Zafeiria Roumelioti* Seeking for dependencies of the high frequency "kappa" parameter of earthquake spectrum on weather/climate conditions	*Nikolaos Zouros* UNESCO Global Geoparks and Global Geoparks Network: Protecting, promoting and managing Earth heritage – Building Sustainable Communities	*Charalampos Vasilatos, Ifigeneia Megremi, Zoi Gkioka, Neofyta Theori, Erika Yessenia Cuida Lopez, Anca-Iulia Stoica and Athena Economou-Amilli* Assessment of Geo-environmental Status of Trichonis Lake, Greece: Mineralogy, Sedimentology, and Chemistry	*Maria Kaimakami* Mapping the geological landscape of NW bay of Navarino through time	*Dimitris Sakellariou, Ioannis Morfis, Dimitris Vandarakis, Isidoros Livanos and Ioannis Kourliaftis* Airborne and marine survey of the 8th June 2023 earthquake-triggered coastal collapse at Mylos Gialtron, North Evia: Contribution to the understanding of coastal zone vulnerability
11:15	*Harry Moustakas, Zafeiria Roumelioti, Efthimios Sokos and Christos Evangelidis* The Horizontal-to-Vertical Spectral Ratio Method for Underground Voids Detection: Testing Over Mycenaean Tombs	*Ismar S. Carvalho, Maria Helena P. Henriques and Giuseppe Leonardi* Sousa Dinosaur Valley, Brazil: The largest record of Lower Cretaceous dinosaur footprints in South America and its influence in local communities	*Artemios Roussos, Efstratios Kelepertzis, Zacharenia Kypritidou, Epameinondas Aivatzidis, Christos Drougas, Emmanouil Vassilakis, Panagiotis Voudouris and Nikolaos Zouros* Soil Geochemical Mapping on Lesvos Island, Greece	*Anna Giannakou, Nikolaos Soulakellis, Nikolaos Zouros and Dimitrios Kavroudakis* Estimation of an empirical relationship for calculating quantities of demolished materials through three-dimensional visualization of buildings affected by the earthquake of June 12, 2017, in Vrisa, Lesvos.	*Kyriaki Manta, Grigoris Rousakis, Maria Geraga, George Papatheodorou, Dimitris Sakellariou and Aristomenis Karageorgis* Preliminary results on sedimentological characteristics of Mass Transport Deposits (MTDs) during the Amorgos tsunami 1956: sediment provenance and geochemical elements.
11:30	*Onur Tan and Özlem Karagöz* Earthquake hazard implications for Lesvos (Midilli) and the surrounding region	*Georgia Kitsaki, Christos L. Stergiou and Haritakis Papaioannou* Vikos-Aoos Geopark: Toponyms as a Link Between Geological Heritage and Culture	*Vanessa Schifano, Lorenza Li Vigni, Luciana Randazzo, Lorenzo Brusca, Sergio Bellomo, Sergio Calabrese and Walter D'Alessandro* Travertine deposits of Greece, a mineralogical and geochemical study	*Ermioni Eirini Papadopoulou, Stavros Proestakis, Christos Nikolaos Anagnostopoulos and Nikolaos Soulakellis* Development of a cartographic web application for monitoring the Corinth Canal using UAV data	*Paraskevi Sklavounaki, Vasiliki Tzafaridi, Thomas Hasiotis, Stefanos Missias and Aristeidis Paleokrassas* First record of pockmarks in the North Aegean Trough
11:45	*Evaggelia Pappa, Costas Papazachos and Nikolaos Chatzis* VS30 Estimation from P-Wave Seismograms: Exploring a Frequency-Domain Approach for Stations Located in Sedimentary Basins	*Ilias Valiakos, Konstantina Bentana and Nikolaos Zouros* Conservation and Interpretation of Fossiliferous Sites in the Lesvos Island UNESCO Global Geopark	*Ariadne Argyraki, Artemis Kontomichalou, Zacharenia Kypritidou and Alexandros Liakopoulos* Balancing Precision and Resources: The Effect of Sampling Density in Regional Soil Geochemical Mapping	*Eleni Kolaiti, Nikolaos Soulakellis, Georgios Tataris and Nikos Mourtzas* The Argo-Beachrock Project: web mapping and geovisualisation of beachrocks using UAS along the coast of the Argolic Gulf, Greece	*Isavela Monioudi, Dimitrios Chatzistratis, Adonis Velegrakis, Anastasios Risgos, Antonis Chatzipavlis, Antigoni Nikolaou and Olympos Andreadis* The geospatial characteristics of an island beach: the case of Kos, Greece
12:00	*Odysseus Galanis and Areti Panou* An investigation of the use of deep-neural-network-based seismic arrival time picking methods for the automatization of earthquake sequence monitoring: The case of the November 3, 2024 MW 5.3 Kassandra earthquake	*Paraskevi Nomikou, Elisavet Nikoli, Evangelos Tasioulas, Christophis Koroneos, Kalliopi Sakkali, Georgios Koukourakis, Panagiotis Nastos, Varvara Antoniou, Dimitrios Emmanouloudis, George Pehlivanides and Aristidis Batis* Nisyros Geopark: A Living Laboratory of Volcanic Geoheritage in the South Aegean		*Efthymios Magkoufis, Athanassios Ganas, Konstantinos Nikolakopoulos and Betty Charalampopoulou* A WebGIS platform for the multiparametric monitoring of ground deformation and critical infrastructures under the name PROION	
12:15	*Maria Grylionaki, Nikolaos Theodoulidis, Areti Panou and Panagiotis Chatzidimitriou* Estimation of soil vulnerability index in the metropolitan area of Thessaloniki (Greece)	*Maria Tsoni, Eleni Koumoutsou and George Iliopoulos* Chelmos- Vouraikos Unesco Global Geopark 2024: Advancing Conservation, Education, and Community Engagement		*Panagiotis Kalaitzis, Michael Foumelis, Antonios Mouratidis and Nikolaos Soulakellis* Multiscale Geo-visualization Dashboard of Persistent Scatterer Interferometry SAR Data, Lesvos Island, Greece	
12:30		*Maria Helena Henriques, Salomé C. Custódio and Ismar S. Carvalho* Geoconservation in Portugal: an overview		*Emmanouil Antonakis and Nickolas Zouros* Digital Visualization of Geological Heritage at Lesvos UNESCO Global Geopark: The Role of 3D Animations in Educational Experiences	
12:45		*Loukas Savvelos and Nikolaos Zouros* Mapping pyroclastic formations at the Lesvos Petrified Forest, Greece the Akrocheiras hill pyroclastic sequence			
13:00		*Erdal Gumus and Nikolaos Zouros* The rocks connect us: Volcanic geoheritage of Lesvos Geopark (Greece) and Ida Madra Geopark (Türkiye)			
13:15		*Eleni Kolaiti, Nikolaos Zouros and Nikos Mourtzas* The Corinth Canal (Greece): monumentality and protection			
13:30–14:30	**LUNCH BREAK**				

Wednesday, May 28th

POSTERS

G02 Applied geophysics / G13 Geophysics – Seismology	
17	*Panagiotis Kosmas, Constantinos Loupasakis, Vasiliki Eleftheriou, Rozalia Christodoulopoulou and Antigoni Vrouva* Ultrasonic analysis of the structural stones of the Parthenon at the Acropolis of Athens – Investigation of the physical / mechanical properties and integrity control of the grouted Joints
25	*Athanasios Lois, Dimitrios Giannopoulos and Efthimios Sokos* Automated Seismic signals' identification: A statistical criterion for decreasing the false alarm rate; Implementation on synthetic data.
291	*Konstantina Krotka, Fikos Ilias and Papathanassiou George* Geophysical investigation of landslide phenomena in the Perivoli area, Grevena, using the electrical resistivity tomography method
300	*George Vargemezis, Panayiotis Tsourlos, Ilias Fikos, Eytychia Amanatidou, Prodromos Louvaris and Eleni Tzima* Contribution of Electrical Resistivity Tomography to the investigation of landslide conditions on slopes

G10 Geological Herritage – Geodiversity – Geoconservation – Geoparks	
29	*Eugenia Moraiti, Panagiotis Voudouris and Vassiliki Barsaki* Innovative educational programs at the Lavreotiki UNESCO Global Geopark: the ERASMUS+ "ARTeMIS" Program Action for Research and Teaching Mineral exploration Inclusive School, Greece
73	*Dora Tsipra and Hara Drinia* Exploring Participant Experiences in a Geoconservation Program in Apano Meria, Syros island, Greece
242	*Panagiotis Sotirios Dittopoulos and Alexandros Chatzipetros* Using alternative methods to promote geoheritage: the Koziakas Mt., central Greece, case study
252	*Eleni Pegioudi and Alexandros Chatzipetros* Geological routes on Ammouliani Island, northern Greece
261	*Vasiliki Barsaki, Irene Zananiri and Eugenia Moraiti* Highlighting the Geological Heritage of the Island of Kythira, Greece
275	*Kimon Soultanis, Konstantinos Soukis and Maria V. Triantaphyllou* Discovering the geoheritage of Skiathos Island (Northern Sporades, Greece)


Nissiopi marine Petrified Forest

G09 Geochemistry and Geochronology	
52	*Emilia Sofianska, Konstantinos Athanassoulis, Dimitrios Tarenides and Maria Gkagka* Composition and physicochemical properties of muds from the Evros river delta, Thrace district (Northern Greece) and their potential use in pelotherapy
66	*Christina Kotsakostoudi, Anna Bourliva, Christina Mytiglaki, Lambrini Papadopoulou and Nikolaos Kantiranis* Heavy metal concentrations in indoor house dusts from the city of Thessaloniki, N. Greece: a small-scale study
87	*Ioanna Gerontidou and Antonios Koroneos* Major and trace element analysis on geological samples using WD-XRF on pressed pellets
91	*Myrsini-Ifigeneia Samothraki, Zacharenia Kypritidou and Ariadne Argyraki* Comparison of dermal bioaccessibility of potentially toxic elements contained in modern and ancient cosmetics
175	*Anastasios Ladas, Vasileios Melfos, Lamprini Papadopoulou and Nikolaos Kantiranis* Study of the geochemical distribution of uranium and thorium in the soils of the Sarigiol Basin, Kozani, and their environmental significance
223	*Klea Dimitri, Christina Stouraiti, Dimitra Amanatidou and Konstantinos Soukis* The Triassic post-collisional high-K alkali-calcic granites in the Vertiskos Unit, Serbo-Macedonian Massif: insights from Miriofito granite, Kerkini complex, Greece
228	*Francesco Tripodi* Preliminary results of GEM (Gaseous elemental mercury) concentration in interstitial soil and free gases from Mt. Etna, Sicily
282	*Katerina Giouri, Christos L. Stergiou, Vasilios Melfos, Lambrini Papadopoulou, Nikolaos Kantiranis, Irena Peytcheva and Elitsa Stefanova* Preliminary results on the toxic elemental accumulation in the Fe-oxides of the stream sediments from Palea Kavala, Northern Greece

G16-GIS and Geo-informatics	
50	*Maria Kakavas, Aggeliki Kyriou, Konstantinos Nikolakopoulos and Ioannis Koukouvelas.* The influence of DSMs spatial resolution on rockfall simulation.
309	*Georgios P. Georgalas, Polychronis Kolokoussis, Sofia Laskari and Konstantinos Soukis.* Automatic Detection and Extraction of Geological Lineaments on Amorgos Island Using Satellite Data and Open-Source Software
326	*Georgios Grimpylakos.* Digital model of Hydrological components, Mean annual Temperature, Precipitation and Evapotranspiration in Macedonia, Greece
14	*Constantinos Nefros, Gianna Kitsara, Constantinos Loupasakis and Christos Giannakopoulos.* Rapid Detection of Landslides Triggered by Mediterranean Cyclones Using Google Earth Engine and Open-Access Data

G19 Marine geology and Oceanography	
122	*Sotiria Kothri, Paraskevi Nomikou, Maria Filomena Loreto, César Rodríguez Ranero, Danai Lampridou, Elisavet Nikoli, Irene Merino, Valentina Ferrante, Serafeim Poulos and Athanassios Ganas.* Submarine geomorphological structures in the Ionian Sea, Greece
127	*Sofia Michalopoulou, Sara Faulwetter, Dionisios Christodoulopoulos, Alexis Ramfos and Pavlos Avramidis.* The impact of aquaculture units on Copper (Cu) concentrations in marine sediments
136	*Eugenia Fatourou, Aikaterini Kafetzidou, Fabienne Marret, Konstantinos Panagiotopoulos and Katerina Kouli.* Quaternary eustatic cycles and their impact on the Paleoceanography of the Gulf of Corinth (NE Mediterranean Sea)
197	*Adamantia Paschali Patouchi, Ioannis Panagiotopoulos and Dimitrios Vandarakis.* A Pilot Study of Erosion in the Mavro Lithari Beach, part of the Highly Urbanized Coastal Zone of the Eastern Saronic Gulf, through the use of drone technology
245	*Vasiliki Koumpou, Serafeim Poulos, Aikaterini Karditsa, Stylianos Petrakis and Vasileios Kapsimalis.* An insight to grain size composition of the beach sediment along the north coast of the Messiniakos Gulf (Greek Mainland)

Wednesday, May 28th

4	AMPHITHEATRE 14:30–16:30 Session 4A: G02 Applied geophysics / G13 Geophysics – Seismology	ROOM A 14:30–16:30 Session 4B: G10 Geological Herritage – Geodiversity – Geoconservation – Geoparks	ROOM B 14:30–16:30 Session 4C: G14 Geosciences, Health, Environment and Sustainable development	ROOM C 14:30–16:30 Session 4D: G26 Remote sensing/Earth observation	ROOM D 14:30–16:30 Session 4E: S07 Tackling water scarcity in Greece: New Approaches and Case Studies for Arid Regions
14:30	*Olga-Joan Ktenidou, Antonia Papageorgiou, Fevronia Gkika, Erion-Vasilis Pikoulis, Kalliopi Fragouli, Fanis Chalaris, Spyros Liakopoulos, Ziya Cekinmez, Panagiotis Savvaidis and Christos Evangelidis* A holistic proposition for assessing reference station conditions	*Salomé C. Custódio, Maria Helena Henriques and Artur A. Sá* The Geoheritage of the "Atlantic Geopark" Project (Central Portugal) at a Glance	*Panagiotis Karanis* Climate changes, neglected and emerging diseases	*Athanassios Ganas, Francesco Carnemolla, Ioannis Karamitros, Nikolaos Madonis and Vasileios Georgakopoulos* Geodetic monitoring of the Methana volcano (central Greece) using campaign GNSS data: preliminary results	*Kalliopi Kravari and Dimitrios Emmanouloudis* A Novel Approach to Flood and Drought Management in Arid Regions using Multi-Agent Systems
14:45	*Özlem Karagöz and Onur Tan* Microtremor array explorations and the importance of local site effect in Western Türkiye	*Vasiliki Barsaki, Panagiotis Voudouris and Eugenia Moraiti* The world class geodiversity of the Lavreotiki UNESCO Global Geopark's minerals, Lavreotiki Municipality, Greece	*Christos Drougas, Efstratios Kelepertzis, Zacharenia Kypritidou, Evangelia Sigala, Christos Roumpos, Georgios Louloudis, Eleni Mertiri and Evangelos Oikonomopoulos* Hydrogeochemical Characteristics of Alfeios River and the wider hydrographic Network in the Lignite Basin Area of Megalopolis	*Evlampia Kouzeli, Olga Sykioti, Konstantinos Nikolakopoulos, Saeid Asadzadeh, Friederike Koerting and Daniel Schläpfer* Mineral mapping using satellite multispectral and hyperspectral data for a pyrite mine in the frame of the m4mining project	*Ch. Mpakopoulou, D. Tsesmelis, K. Kalogeropoulos, K. Vasilakou, E. Feloni, E. Zervas and A. Tsatsaris* Investigating Drought Dynamics in Greece Using Climate and Meteorological Indicators
15:00	*Nikos Vavlas and Anastasia Kiratzi* Scaling Relations Between Earthquake Magnitude and Source Duration with Applications to Greece	*Grace Paez, Karla Vizuete, Alexis Debut, Mario Cruz-D'Howitt, Juan José Ortiz and Theofilos Toulkeridis* Characterization and timing of charcoal in geoheritage sites preserved by major volcanic destructions – Geoarcheological and paleo-environmental considerations in Ecuador	*Ioannis Michalakis and Eleni Tsolaki* Water Wells in Crete: Distribution by Municipality, Use, and Ownership—Results of a Systematic Inventory in Greece	*Panagiotis Stamatis, Michaela Doukari and Kostas Topouzelis* Evaluating Airborne LiDAR and RGB Imagery for Accurate Shoreline Detection	*Alexandros Troupakis, Elissavet Feloni, Kleomenis Kalogeropoulos and Andreas Tsatsaris* Exploring Social Perceptions of Water Scarcity and Local Water Resource Management in Greece: Insights from a National Survey
15:15	*Maria Georgia Dasoula, Zafeiria Roumelioti, Efthimios Sokos and Sotirios Kokkalas* Statistics on seismic moment tensors for the Aegean Sea and surrounding area: preliminary results	*Elisavet Nikoli, Paraskevi Nomikou, Evangelos Tasioulas, Christophis Koroneos, Kalliopi Sakkali, Georgios Koukourakis, Panagiotis Nastos, Varvara Antoniou, Dimitrios Emmanouloudis, George Pehlivanides and Aristidis Batis* Integrating Volcanic Geoheritage and Community Engagement: The Case of Nisyros aspiring UNESCO Global Geopark	*Efstratia Chatzi, Evangelia-Theodora Derdemezi and Georgios Tsilimigkas* The Impact of Urban Sprawl on Areas of Natural and Cultural Heritage and Geoheritage. Evidence of Lemnos island, Greece	*Vassilis Sakkas, Andreas Tzanis and Evangelos Lagios* Ground Deformation in Nisyros Volcano (Greece) Determined by GPS and SAR Interferometric Techniques	*Thomas Stavropoulos and Elissavet Feloni* Domestic Rainwater Harvesting Tanks' Sizing under Climate Change Conditions in Nisyros Island
15:30	*Georgios Michas* Spatiotemporal diffusion variability in seismic swarms	*Georgios Lazaridis, Christos L. Stergiou, Alexandros Chatzipetros, Konstantinos Stamoulis, Despina Dora, Xenia Georgopoulou, Konstantinos Vouvalidis, Evangelos Nikolaou, Panagiotis Paschos, Georgia Kitsaki and Haritakis Papaioannou* Utilizing Information and Communication Technology for geosite development: The case of sulfuric acid caves in the Vikos-Aoos UNESCO Global Geopark	*Ioannis Michalakis, Adonis Photiades and Spyros Staridas* An Overview of Geological Map Sheets of Crete by HSGME	*Elena Papageorgiou, Michael Foumelis, Pascal Dominique, Pavlos Bonatis, Daniele Raucoules, Marcello De Michele and Eleftheria Papadimitriou* Groundwater changes and induced seismicity influencing surface deformation in post-mining landscapes	*Konstantina Maria Apostolou, Elissavet Feloni and Anastasia Stergiadou* Simulation of Domestic Rainwater Harvesting Systems on Fourni Island, Aegean Sea: Assessing Efficiency Under Historic and Climate Change Scenarios.
15:45	*Georgios Goutsos, Vasiliki Kouskouna, Georgios Sakkas and Nikolaos Sakellariou* A decade of data: Updating the Hellenic Macroseismic Database for historical earthquakes	*Vahram Serobyan, Taniel Danelian and Araiyk Grigoryan* The Upper Devonian sequence of the Noravank and Ertych geosites in Armenia: stratigraphy and geotouristic potential	*Chara Papailiou, Maria Kolendrianou and Charalampos Fassoulas* RescueME, a Research Action that focuses on the enhancement of the resilience of coastal cultural landscapes in Europe. The case study of Psiloritis UGGp, Crete, Greece		
16:00	*Antonia Papageorgiou, Olga-Joan Ktenidou, Vasilis-Erion Pikoulis and Efthimios Sokos* Comparing broadband and strong-motion data using collocated sensors in the HP network, Greece	*Demerios Constantinides* ERBE SYMPOSIUM 2027– LAVRION GREECE: Honouring the Values of Geo-Mining Heritage			
16:15	*Zafeiria Roumelioti and Nikitas Katsaitis* Shallow Depth P-wave Velocity Profiling Using Seismic Interferometry: The CORSSA Site	*Georgios Kontokostas and Assimina Antonarakou* Application of The Educational Proposal for Geoscience: Geology in secondary education through educational geopaths in the urban environment			
18.00–20.00	**OPENING CEREMONY**				
20.30–22.30	**WELCOME DINNER & PARTY**				

Wednesday, May 28th

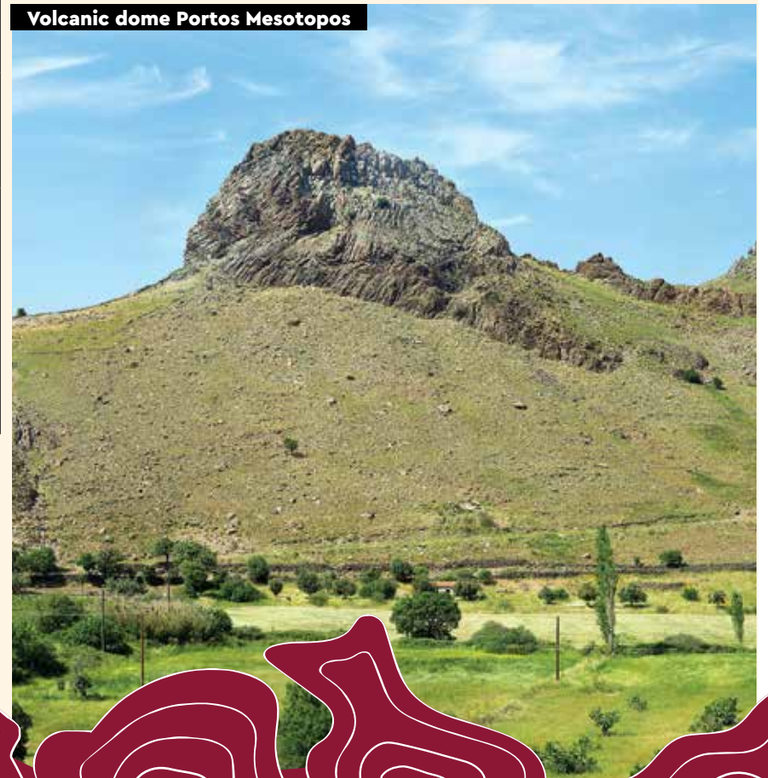
POSTERS

G02 Applied geophysics / G13 Geophysics – Seismology	
47	*Emmanouil Manoutsoglou, Nikolaos Andronikidis, Ilias Lazos, Georgios Kritikakis, Nikolaos Economou, Emmanouil Steiakakis, Georgios Xiroudakis and Antonios Vafeidis* Monitoring sea water intrusion at Samaria Gorge National Park
83	*Chrisanthi Ventouzi, Costas Papazachos, Charalambos Kkallas and Evaggelos Spyridonos* Microseismicity. Monitoring of the Broader Stypsi Geothermal Field Area (Northern Lesvos Island, Greece) Using a Local Seismological Network
207	*Evangelia Bouranta and Ioannis Hatzopoulos* Development of a Geographic Information System for the Near-Real-Time Management of the seismic risk. Case study: The city of Mytilene, Lesvos (Greece)
241	*Charalampos Kkallas, Costas Papazachos and Basil Margaris* A Duration Model for Strong Seismic Motions of Intermediate-Depth Earthquakes in the Southern Aegean and its implication for stochastic simulations
279	*Stylianos Chailas and Andreas Tzanis* A Preliminary 3D Gravity Model for the pre-Volcanic Basement of Lesvos Island, Greece
293	*Ioanna Nikolopoulou, Gian Maria Bocchini, Marco Roth, David Essing, Rebecca Harrington, Anna Serpetsidaki, Ioannis Fountoulakis, Christos Evangelidis and Efthimios Sokos* The 2024 March 29, 5.9 ML Strofades Earthquake (Greece) and its Seismic Sequence: Relocation, Focal Mechanism Solutions and Stress Inversion

G14 Geosciences, Health, Environment and Sustainable development	
118	*Maria Michalopoulou, Nikolaos Depountis, Eleni Zagana and Pavlos Avramidis* Application of geochemical indices for heavy metal evaluation in the Pinios Dam, Greece
128	*Pavlos Avramidis, Alexis Ramfos, Ioannis Sarris, Dionisios Christodoulopoulos, Marinos Alexandridis, Maria Michalopoulou, Nikolaos Depountis and Stefanos Papazisimou* Seasonal Water Column Stratification and Heavy Metal Distribution in the Pinios Dam Reservoir: A Comprehensive Environmental Monitoring Study
148	*Vasiliki Lianou and Petros Tsakiridis* Management of solid wastes from offshore oil drilling, based on their geochemical properties: A case study from the Prinos facilities in the Northern Aegean Sea.

S07 Tackling water scarcity in Greece: New Approaches and Case Studies for Arid Regions	
299	*Angelos Chasiotis, Elissavet Feloni and Panagiotis Nastos* Sustainable Practices for Resilient Hydrosystems at a Municipal Level: Insights from the Greek Island of Chios

Volcanic dome Portos Mesotopos

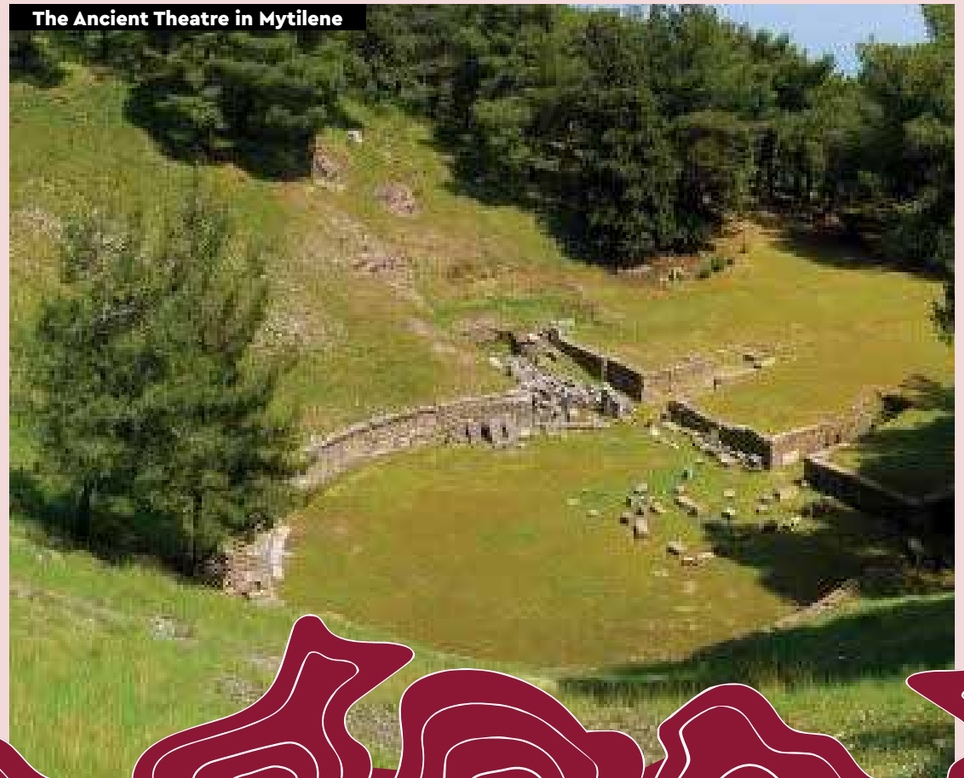


17th INTERNATIONAL CONGRESS
of the Geological Society of Greece

OFFICIAL OPENING CEREMONY

	MUNICILAL THETRE OF MYTILENE PROGRAMME 18.00–20.00
18.00	**OPENING** **Audiovisual presentation: Welcome in Lesvos (10')** *by Dimitris Talianis*
18.10	**Welcome Adress by President of the Organizing Committee** *Professor Nickolaos Zouros* Welcome Adress by President of the Board of the Geological Society of Greece *Dr Athanasios Ganas*
18.20	**WELCOME GREETINGS**
19.00	**Audio visual presentation: Lesvos UNESCO Global Geopark (8')** *by Dimitris Talianis*
19.10	**Lecture: The Ancient Theatre in Mytilene** *Dr. Pavlos Triantafilidis, Director of the Ephorate of Antiquities of Lesvos*
19.30	**Awarding of Honorary Plaque to the Presidents of the Geological Society of Greece** **Audio visual presentation: Geological monuments in Greece (3')** *by Dimitris Talianis*
20.30–23.00	**WELCOME DINNER & PARTY** **Plaz Restaurant TSAMAKIA**

The Ancient Theatre in Mytilene



Thursday, May 29th

AMPHITHEATRE		
5	**09:00–09:30**	**Session 5: Keynote Lecture**
		Dr. Meletlidis Stavros, Instituto Geográfico Nacional, Spain **When science meets crisis: Canary Islands as a model for Santorini's emerging threat**

	AMPHITHEATRE	ROOM A	ROOM B	ROOM C
6	**09:30–11:00 Session 6A: S11 The 2024–2025 Santorini volcano-seismic crisis: Origin, Impacts and Consequences**	**09:30–11:00 Session 6B: G24 Palaeontology, Stratigraphy and Sedimentology**	**09:30–11:00 Session 6C: S05 Engineering geology and infrastructure projects. New challenges and risks in an ever-changing environment**	**09:30–11:00 Session 6D: G15 Geothermal Energy**
09:30	*Costas Papazachos, George Vougioukalakis, Stylianos Bitharis, Christos Pikridas, Michael Foumelis, Chrysanthi Ventouzi, Charalambos Kkallas, Eleni Karagianni, Domenikos Vamvakaris and Elena Papageorgiou* Monitoring the Santorini Volcano for 3 decades (1995–2025) by ISMOSAV and its role for the early detection of the 2011–2012 and 2024–2025 intra-caldera unrests	*Dimosthenis Telemenis, Spyridon Bellas, Evangelos Vavouranakis and Emmanouil Manoutsoglou* Source rock potentiality of the late Miocene sapropelic layers of Gavdos island, Greece, based on geochemical and stratigraphic data	*Aliki Kokkala, Vassilis Marinos and George Papathanassiou* Utilizing engineering geological database for urban geohazard assessment: a case study from Thessaloniki, Greece	*Athanassios Ganas, Vasilis Kapetanidis, Varvara Tsironi, Andreas Karakonstantis and Ioannis Karamitros* Integrated monitoring of the Milos geothermal site (Cyclades, Greece) using InSAR, GNSS and local seismic network data
09:45	*Spyros Pavlides, Vassilis Karastathis, Evangelos Mouzakiotis, Sotiris Sboras, Alexandros Chatzipetros and Ilias Lazos* Active Faulting in Santorini and the recent intra-caldera (2024-2025) seismic activity along the Kameni-Fira Fault line	*Avraam Zelilidis, George Iliopoulos, Angelos G Maravelis and Nicolina Bourli* The presence of nappes, in SW Peloponnesus peninsula, and the strongly metamorphic Plattenkalk series, in central south Peloponnesus and Crete Island, change the dynamic evolution of west and south Greece	*George Papathanassiou, Sotiris Valkaniotis and Maria Taftsoglou* The influence of stratigraphy for the generation of surface evidence of liquefaction phenomena; case study Piniada, Greece	*George Apostolopoulos, Alireza Malehmir, Ioannis Vakalas, Haralambos Kranis, Konstantinos Leontarakis, Christos Orfanos, Emmanouil Konstantinidis, Magdalena Markovic, Myrto Papadopoulou, Stylianos Chailas, Emmanouil Skourtsos, Andreas Tzanis and Evaggelos Spyridonos* Legacy data analysis combined with an integrated geological and geophysical survey for geothermal site exploration at Petra-Lesvos, Greece
10:00	*Athanassios Ganas, Pierre Briole, Varvara Tsironi, Georgios Goutsos, Nicolaos Madonis, Eustratios Liadopoulos and Ioannis Mintourakis* Geodetic monitoring of the 2024–2025 Santorini volcanic unrest using GNSS and InSAR data: preliminary results	*Nicolina Bourli, Chrysanthos Botziolis, Penelope Papadopoulou, Panagiotis Zelilidis, Elena Zoumpouli, George Iliopoulos, Angelos G Maravelis, Efthymios Tripsanas, Ioannis Oikonomopoulos, Aristotelis Pagoulatos and Avraam Zelilidis* Facies and depositional architecture of Upper Miocene tidal flat sedimentation in Kefalonia and Corfu Islands, West Greece	*Maria Taftsoglou, Sotiris Valkaniotis, George Papathanassiou and Sotirios Argyroudis* Liquefaction risk assessment of airport infrastructure using geological data and remote sensing techniques	*Andreas Tzanis, Stylianos Chailas and Evaggelos Spyridonos* The geothermal prospect of the NW Lesvos Island, Greece: Three-dimensional magnetotelluric and gravity exploration
10:15	*Isobel Yeo, Paraskevi Nomikou, Michael Clare, John Jamieson, Gaye Bayrakci, Anna Lichtschlag, Emma Gregory, Gemma Portlock, Sofia Della Sala, Alice Hopkins, Jacob Nash, Jaycee Favela, Katlin Adamczyk, Erin Bethell, Jennifer Spalding, Anna Katsigera, Sebastian Hölz, Konstantin Reeck, Martin Wollatz-Vogt, Hannah Zimmer, Jieyu Tan and Tom Kwasnitchka* Preliminary findings from expedition DY190 to the Christiana-Santorini-Kolumbo volcanic field in March 2025	*Panagiotis Zelilidis, Alfred Uchman, George Iliopoulos, Panagiota Dalgkitsi and Nicolina Bourli* The trace fossil Zoophycos as an indicator for the Apulian Platform Margins evolution during Eocene in Lefkas Island.	*Sotiris Valkaniotis, Maria Taftsoglou, Domna Samara, George Papathanassiou, Konstantia Tolika, Caterina Zei and Themistoklis Chatzitheodosiou* Development of a Medicane-induced landslide inventory with field and remote sensing data; 2023 Storm Daniel, central Greece	*Panagiota-Elpida Tsekoura, Marianthi Stefouli, Ioannis Vakalas, Eleni Vasileiou and Maria Perraki* Applications of satellite data analysis in the exploration of geothermal systems: The case of the Methana Peninsula, Greece
10:30	*Michael Foumelis, Elena Papageorgiou, Elisa Trasatti, Deodato Tapete, Stylianos Bitharis, Christos Pikridas and Costas Papazachos* Role of Earth Observation in Monitoring Santorini–Anydros Volcano-Tectonic Crisis	*Panagiota Dalgkitsi, Alfred Uchman, Chrysanthos Botziolis, Panagiotis Zelilidis, Nicolina Bourli and Avraam Zelilidis* The transitional deposits from carbonates to clastic in the Pindos foreland basin: an example from the Mazia village, Ioannina region, Greece		
10:45	*Jens Karstens, Paraskevi Nomikou, Marius Isken, Michelle Maree Parks, Vincent Drouin, Emilie E.E. Hooft, Thomas R. Walter, Mahmud Haghshenas Haghighi and Dimitris Anastasiou* The 2025 seismic crisis reveals a coupled magma feeding system at Santorini and Kolumbo	*Marianthi Tzortzi, Federico Lugli, Thomas Tütken, Vasilis Golfinopoulos, George Iliopoulos and Andreas Darlas* Tracking mobility of Late Pleistocene ruminants using enamel strontium isotope analysis of teeth from Melitzia Cave, Mani Peninsula (Greece)		
11:00–11:30	**COFFEE BREAK**			

POSTERS

G15 Geothermal Energy	
310	*Athanasios Koukoulis and Markos Xenakis* Measurements of soil gas emissions (Radon and Thoron) in the municipality of west Lesbos, Stypsis – Petras, and correlation with tectonic structures (Rift Zone) of the subsidence coast of Petra

Thursday, May 29th

POSTERS

Session 5E: S11 The 2024–2025 Santorini volcano-seismic crisis: Origin, Impacts and Consequences	
333	*Emmanuel Vassilakis, Efthymos Lekkas, Assimina Antonarakou, Panagiotis Nastos, Aliki Konsolaki, Evelina Kotsi, John Lialiaris and Michael Foumelis* Rockfall Source Identification and Risk Assessment at the Caldera of Santorini Island, Greece, based on Aerial LiDAR Data
334	*Eirini Sardeli, Kyriaki Pavlou, Andreas Karakonstantis, Alexandros Athanasopoulos, Sokratis Pappas and Filippos Vallianatos* The 2025 Santorini Swarm: Spatiotemporal Distribution and Coulomb Stress Changes. Preliminary Results
337	*Marilia Gogou, Nafsika Ioanna Spyrou, Spyridon Mavroulis, Niki Evelpidou, Maria Mavrouli, Efthimis Lekkas and Assimina Antonarakou* Assessment of assembly point suitability in tsunami-prone South Aegean coasts after the 2025 Santorini-Amorgos earthquake swarm and related risk reduction measures
362	*Dimitrios-Vasileios Batzakis, Efthimios Karymbalis and Konstantinos Tsanakas* Assessing earthquake-triggered tsunami hazard in Santorini-Amorgos Tectonic Zone: A deterministic simulation-based approach

Session 5F: G24 Palaeontology, Stratigraphy and Sedimentology	
8	*Christina Kalaitzi and Dimitris Kostopoulos* The late Ruscinian leporid Trischizolagus (Leporidae, Lagomorpha) from Megalo Emvolon (Thessaloniki, Greece)
55	*Evangelia Besiou, George Kontakiotis, Iuliana Vasiliev and Assimina Antonarakou* Environmental controls on Globorotalia menardii size variability preceding the Tortonian/Messinian boundary
63	*Christina Giamali, George Kontakiotis and Assimina Antonarakou* Paleoecological imprints of pteropod assemblages and their response to sapropel S1 conditions in the eastern Mediterranean Sea
101	*Georgios Lyras, Athanassios Athanassiou, Alexandra van der Geer, George Kontakiotis, Evangelia Besiou and Assimina Antonarakou* The Early Pleistocene vertebrate fauna of Vatera, Lesbos, Greece
103	*Artemis Kotsomitopoulou, Nikolaos Tsaparas and Galazoudi Erasmia* New Clypeaster fossils from South Crete (Rodakino, Rethymno)
158	*Antonios Isidoros Avrithis, Efterpi Koskeridou, Evangelia Rentoumi, Evangelos Vlachos and Davit Vasilyan* A Preliminary Review of Microvertebrate and Invertebrate Fauna from the Early Pleistocene of Koukos region (Kos Island, Dodecanese, Greece)
267	*Theodora Tsourou, Eleni Anastasia Markoglou, Taniel Danelian, Constantine Parinos, Alexandra Gogou and Maria Triantaphyllou* Deep sea agglutinated foraminifera from the surface sediments of NE Mediterranean Sea

Session 7G: G11 Geology and Education	
74	*Alkiviadis Sideridis, Evangelos Koutsoumpis, Katerina Mytakidou, Maria Boumpouka, Vasiliki Anevlavi and Paraskevas Rousopoulos* Marble as an educational fabric interweaving cultural and geological heritage, the case study of ancient Philippi site rock art, Kavala, Greece
77	*Vasiliki Barsaki, Irene Michailidou, Filio Peppa, Georgia Kerdela and Eugenia Moraiti* The UNESCO Global Geopark of Lavreotiki: a pillar for climate change adaptation & the example of sustainable water use, Greece
124	*Efterpi Koskeridou, Christos Psarras, Evangelia Rentoumi, Ioannis Giaourtsakis and Marija Bošnjak* The role of the museums in the geoscience education– examples from the Museum of Paleontology and Geology of the National and Kapodistrian University of Athens, Greece and the Croatian Natural History Museum, Croatia
153	*Olga Koumoutsakou and Assimina Antonarakou* Unveiling the Potential of AI in Geoscience Education: A Student-Centered Perspective
154	*Marianthi Katheri, Olga Koumoutsakou and Assimina Antonarakou* Challenges and Opportunities in the AI Era: Promoting Earth Science Education for Deaf and Hard of Hearing Students
156	*Pavlina Kolyva, Olga Koumoutsakou and Assimina Antonarakou* The Role of Fairy Tales in Fostering Geoscience Understanding in Early Childhood
174	*Kalpogiannaki Maria, Aikaterini Rogkala, Panagiota P. Giannakopoulou, Petros Koutsovitis, Paraskevi Lampropoulou, Petros Petrounias, Dimitrios Papoulis, Nikolaos C. Koukouzas and Panagiotis Pomonis* Geoeducational and Geotourism values of geological resources as novel path for Geosciences Education
235	*Athanasia Bakopoulou, Chrysi Dousiaki, Michalis Diakakis, Emmanouil Andreadakis, Spyridon Mavroulis, Maria-Evangelia Gogou, Haralambos Kranis, Assimina Antonarakou and Efthymios Lekkas* Teachers' experience, attitudes and skills on flood events: The case of Daniel storm 2023, Thessaly, Greece

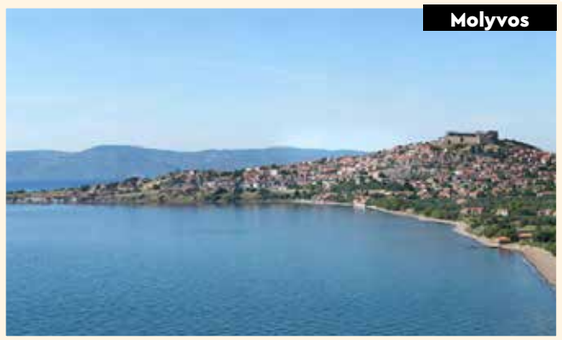
POSTERS

Session 6I: G23 Minerology, Petrology, Volcanology, Ore deposits and Mineral Exploration	
28	*Foteini Aravani, Lambrini Papadopoulou, Antonios Koroneos and Alexandros Chatzipetros* Metapelitic assemblages in the contact metamorphic zone of the Varnous plutonite (NW Macedonia, Greece): preliminary results
100	*Nikolaos Koukouzas, Pavlos Tyrologou, Christos L. Stergiou, Julio Carneiro, Paula Fernández-Canteli, Christina Karatrantou and Stamatina Asimakopoulou* Characterization of Sandstone Formations in the Mesohellenic Trough for CO2 Storage: Insights from the Integration of Optical Mineralogy, Geochemistry, and Automated Imaging Techniques
109	*Aikaterini Rogkala, Petros Petrounias, Panagiota P. Giannakopoulou, Petros Koutsovitis, Maria Kalpogiannaki, Paraskevi Lampropoulou and Harilaos Tsikos* Remnants of oceanic crust of Edessa ophiolite (North Greece): Petrographic and geochemical characteristics
183	*Petros Koutsovitis, Konstantinos Tetisis and Georgia Kolovadi* Petrographic evidence for the metamorphic conditions in ultramafic rocks at Makrymalli – Evia Island
187	*Petros Koutsovitis and Aikaterini Papaioannou* A preliminary petrographic approach of the altered Triassic volcanic lavas in Argolis, Greece
191	*Petros Koutsovitis, Gerasimina Pahaki, Vasileios Giamas and Lemonia Kalantzi* A preliminary petrographic approach to the pyroclastic tuffs in the island of Tilos
203	*Eftychia-Christina Bardi, Paraskevi Lampropoulou, Alexandros Sergoulopoulos, Aikaterini Rogkala, Panagiota P. Giannakopoulou, Fotis Margaritis, Dimitrios Papoulis, Anastasios Tsinidis, Islam Ihtisham and Petros Petrounias* A (preliminary) comparative gemmological-mineralogical study of quartz crystals derived from Greece and Brazil

214	*Christos Kanellopoulos, Dimitrios Galanakis, Sotiris Sboras, Kyriaki Iordanidou, Leonidas Moforis, Nikolaos Xirokostas, Olga Chalkiadaki and George Vougioukalakis* Pagasitikos volcanism (Lichades-Kamena Vourla-Achillio-Mikrothives-Porfyrio-Psathoura): Preliminary results on a Quaternary tectonically related volcanism
220	*Christos Kanellopoulos, Dimitrios Galanakis, Leonidas Moforis, Sotiris Sboras, Olga Chalkiadaki, Nikolaos Xirokostas and George Vougioukalakis* Preliminary results on Agios Efstratios island (NE Aegean Sea, Greece) geology.1
233	*Athanasios Varotsos, Konstantinos Filis, Vayia Xanthopoulou and Ioannis Iliopoulos* Mineralogical and Petrographic study of Hellenistic stamped transport amphorae from the area of Aigion, NW Peloponnese.
258	*Christos Kanellopoulos, Vasiliki Aggelatou and Christos Papatrecha.* Preliminary results of black sands in Corfu Island (Ionian Sea, Greece)
271	*Theodora Chatzakou, Aikaterini Tsiri, Antonios Koroneos, Ioanna Gerontidou and Alexandros Drakoulis* Kentavros plutonite (Thrace, Greece): Geochemistry and Petrogenesis
297	*Alexia Theocharaki, Maria Nikopoulou, Stefanos Karampelas, Kantiranis Nikolaos, Stavros Oikonomidis and Lambrini Papadopoulou* Study of "Corundum" Samples from the Collection of the Mineralogical – Petrological Museum at Aristotle University of Thessaloniki, Greece

Olymbos Mountain

Molyvos



Thursday, May 29th

	AMPHITHEATRE	ROOM A	ROOM B	ROOM C	ROOM D
7	**11:30–13:30 Session 7A: S11 The 2024–2025 Santorini volcano-seismic crisis: Origin, Impacts and Consequences**	**11:30–13:30 Session 7B: G24 Palaeontology, Stratigraphy and Sedimentology**	**11:30–13:30 Session 7C: S06 Applied Geology and Geohazards**	**11:30–13:30 Session 7D: G11 Geology and Education**	**11:30–13:30 Session 7E: G23 Minerology, Petrology, Volcanology, Ore deposits and Mineral Exploration**
11:30	*Ioannis Athinelis, Ignacio Castro Melgar, Theodoros Gatsios, Pavlos Krassakis and Issaak Parcharidis* Employing Sentinel-1 imagery to monitor the deformation rate over the caldera of the Santorini Volcanic Island Complex using multitemporal InSAR from January 2023 up to February 2025	*Aikaterini Kafetzidou, Olga Koukousioura, Vassilis Zotiadis and Katerina Kouli* Rare Insights in the Oligocene flora of Thrace (Greece): Preliminary results from the Rhodopi Petrified Forest	*Sotiris Valkaniotis, Dimitra Rapti, Maria Taftsoglou, George Papathanassiou and Riccardo Caputo* Geomorphological mapping and lithological heterogeneity as tools for the assessment of liquefaction likelihood: Piniada Valley case study (central Greece)	*Hara Moshou and Hara Drinia* Empowering Future Generations: Incorporating Geo – Environmental Education on Climate Change into Greek Compulsory Education	*Petros Koutsovitis, Michiel van der Meulen, Tirza van Daalen, Pavlos Tyrologou, Nikolaos Koukouzas, Alkiviadis Sideridis, Christos Karkalis, Michel Grégoire, Petros Petrounias, Theodoros Ntaflos and Konstantinos Lentas* An outline on some of the recently reported granitoids from St. Martin Island
11:45	*Vassilis Sakkas, Christos Pikridas, Athanasios Ganas, Dimitrios Anastasiou, Panagiotis Elias, Stylianos Bitharis, Konstantinos Chousianitis, Konstantinos Raptakis, Vasilis Kapetanidis, George Kaviris, Stratos Liadopoulos, Nikolaos Voulgaris, John D. Alexopoulos and Evangelos Lagios* Continuous GNSS Geodetic Networks. A Powerful Tool for Monitoring and Understanding Complex Volcanic Environments: The Case of Santorini Volcano During the Seismic Crisis of 2024–2025	*Maria Triantaphyllou, Elisavet Skampa and Vasiliki-Grigoria Dimou* A review of calcareous nannofossil biostratigraphic studies in the Hellenic territory (Greece): the contribution of the Micropaleontology Collection of the Laboratory of Historical Geology and Biogeosciences (NKUA)	*Maria Taftsoglou, Sotiris Valkaniotis, George Papathanassiou, Vassilis Ntouvartzis, Dimitra Rapti and Riccardo Caputo* A correlation of liquefaction phenomena with the surficial geology of point bar deposits; case studies 2021 Damasi, Greece, 2023 Kahramanmaraş, Türkiye and 2010–2011 Christchurch, New Zealand	*Konstantina Bentana and Nickolaos Zouros* Geoheritage as a tool to engage children with the Sustainable Development Goals in UNESCO Global Geoparks: Best practices in educational activities from Lesvos Island UNESCO Global Geopark	*Evangelia Dimou, Angeliki Papoutsa, Vasilios Pletsas, Nikolaos Zegkinoglou, Stephanos Kilias, Paraskevi Nomikou and Paraskevi Polymenakou* Biogenicity of Arsenic Sulfide Biomorphous Structures in Deep-Sea Hydrothermal Vents, Kolumbo Arc Volcano: Morphological, Mineralogical and Geochemical Evidence
12:00	*Christos Evangelidis and Ioannis Fountoulakis* The 2024–2025 Seismic Sequence in the Santorini-Amorgos Region: High-Resolution Seismological Insights into a Volcano-Tectonic Crisis	*George Iliopoulos, Penelope Papadopoulou, Ilias Valiakos and Nickolas Zouros* Contribution to the stratigraphic study of the pyroclastic Formations of the Lesvos Petrified Forest, Lesvos Island, Greece	*Efstratios Karantanellis, Vassilios Marinos and Anika Braun* AI-Driven Approaches for Landslide Modeling: Challenges and Opportunities	*Fani Tripolitsiotou, Ariadne Argyraki and Hara Drinia* "Unfolding the Fold"- An Introduction to the Geology of Greece Through a Museum Kit by the Natural History Museum of Arsakeia Schools	*Nikolaos Arvanitidis, Konstantinos Laskaridis and Christos Christidis* Implementing the Critical Raw Materials Act to explore strategic minerals potential in Greece
12:15	*Jiří Zahradník, Efthimios Sokos, Zafeiria Roumelioti and Fatih Turhan* Non-shear faulting of the 2025 Santorini-Amorgos (Anydros) earthquakes	*Olga Koukousioura, Konstantinos Panagiotopoulos, Eugenia Fatourou, Aikaterini Kafetzidou, Paula Diz, Katerina Kouli and Patrick Grunert* Late Quaternary dynamics of paleoenvironments and ecosystems in the Gulf of Corinth (eastern Mediterranean): IODP Expedition 381	*Pavlos Asteriou, Dimitrios Sotiriadis, Eleni Petala, Labros Kazelis and Nikolaos Klimis* Assessing the effect of 2023 Evros Wildfire: a new Post-Fire Rockfall Hazard System	*Maria Kolendrianou, Zacharenia Kefalogianni, Agapi Kalomoiri and Charalampos Fassoulas* Synergies for geo- education: materials and initiatives from Psiloritis UNESCO Global Geopark and the Center for Environmental Education and Sustainability of Anogia, (Crete) Greece	*Antonela Gjika, Christina Stouraiti, Panagiotis Voudouris, Konstantinos Laskaridis, Marianthi Anastasatou, Constantinos Mavrogonatos and Harald Strauss* Geochemical and Mineralogical Study of the Antimony (Sb)-mineralization at the north Pelion region, Magnesia, Greece
12:30	*Vasileios Karakostas, Anthony Lomax, Vasilis Anagnostou, Eleftheria Papadimitriou, Valerio Acocella, Stephen Hicks and Pierre Henry* The 2025 seismicity burst in the Santorini – Amorgos seismovolcanic zone	*Aikaterini Kafetzidou, Eugenia Fatourou, Konstantinos Panagiotopoulos, Fabienne Marret, Olga Koukousioura and Katerina Kouli* Relict Taxa and Refugial Dynamics in the Corinth Gulf: Insights from the Pollen Record	*Massimo Manaifesta, Gianni Scalella and Nicola Sciarra* An example of DsGSDs in Abruzzo Region (Central Italy): the complex case of Civitella del Tronto	*Aikaterini Maria Rozi and Zafeiria Papadimitriou* Pluto is lost!	*Angeliki Papoutsa, Stephanos Kilias, Nikolaos Zegkinoglou, Vasilios Pletsas, Rebecca Avoukatou, Paraskevi Nomikou, Paraskevi Polymenakou, Andrea Somogyi and Qasid Ahmad* Effects of boiling and seawater mixing on hyper-enrichment of antimony in active polymetallic seafloor massive sulfide hydrothermal diffusers at the Aegean Kolumbo volcano
12:45	*Konstantinos Gkogkas, Costas Papazachos, Nikolaos Chatzis, Dominikos Vamvakaris, Eleni Karagianni, Chrisa Ventouzi, Alexandros Vellis, Nikolaos Anterriotis-Kalpakidis, Dimitrios Madelis, Parthena Paradisopoulou, Eleni Aidona and Christos Pikridas* SantoArray: Densifying station coverage in Santorini amidst the Amorgos-Anydros earthquake swarm crisis	*Valentini Navrozidou, Olga Koukousioura, Sofia Doani, Peter Frenzel, Maria Triantaphyllou, Konstantinos Albanakis and Georgios Syrides* Ostracod-based environmental reconstruction of Lake Koronia, (Central Macedonia-Greece) during the Holocene	*Emmanouil Chatziangelis, Vasileios Boumpoulis and Nikolaos Depountis* Slope failures of friable sandstone in coastal areas. A Case study from Western Greece.	*Alexandros Chatzipetros and Vassiliki Samantzi* Geosites of Thessaly (central Greece) and their educational approach	*Maria Georgaki, Hrissi Karapanagioti, Małgorzata Wojtaszek-Kalaitzidi and Stavros Kalaitzidis* Evaluation of PAHs sorption behavior in coals and cokes
13:00	*Ioannis Katsafados, Dimitrios Anastasiou, Melissinos Paraskevas, Maria Tsakiri, Paraskevi Nomikou and Costas Synolakis* Preliminary results of displacements from the recent seismic and volcanic crisis in the Santorini Island complex, Greece	*Yanbin Zhu, Yongdong Wang and Nikolaos Zouros* New results on the Miocene gymnosperm fossil wood of Lesvos Petrified Forest, Lesvos Island, Greece, and its palaeoenvironment significance	*Themistoklis Chatzitheodosiou, Ioannis Farmakis, Dimitra Papouli, George Stoumpos, George Prountzopoulos and Vassilis Marinos* Three Years of Progress in Digital Applications and Monitoring Utilizing 3D Reality Capture Technologies for Landslide Hazard Mitigation, the Case in Evritania, Central Greece	*Alexandros Aristotelis Koupatsiaris and Hara Drinia* Assessing Educators' Sense of Place and Geoethical Awareness at the 4th Summer School of Sitia UNESCO Global Geopark	*Gonca Gençalioğlu Kuşcu and Göksu Uslular* How medial tephra records contribute to proximal tephrochronology: Case study of Nisyros Volcano
13:15	*Ioannis Athinelis, Eleftheria Basiou, Triantafyllos Falaras and Issaak Parcharidis* Estimation of the displacement components in South Aegean islands as a response to the early 2025 seismicity of the Anydros Islet using Sentinel-1 imagery	*Dionysia Fasoli and Elizabeth Stathopoulou* Tooth enamel meso- and microstructure of fossilized Hipparionine horses of Pikermi (Attica, Greece)	**POSTERS Page 22**	*Nikolaos Zouros, Nikolaos Soulakellis, Ilias Valiakos, Konstantina Bentana, Giorgos Grimpylakos, Aggelos Lamprakopoulos, Parthenopi Panidou, Ermioni-Eirini Papadopoulou and Georgios Tataris* Lemnos Island Geosites and their Geotourism and Education Potential	
13:30	*Dimitris Sakellariou, Ioannis Morfis, Isidoros Livanos, Alexandros Varesis, Stylianos Petrakis and Vasilis Kapsimalis* Marine geological-geophysical data may contribute to the understanding of the early 2025 seismic activity in the Santorini-Amorgos Zone			**POSTERS Page 16**	
13:30–14:30	**LUNCH BREAK**				

Thursday, May 29th

	AMPHITHEATRE	ROOM A	ROOM B	ROOM C	ROOM D
8	**14:30–16:00 Session 8A: S11 The 2024–2025 Santorini volcano-seismic crisis: Origin, Impacts and Consequences**	**14:30–16:00 Session 8B: G24 Palaeontology, Stratigraphy and Sedimentology**	**14:30–16:00 Session 8C: G06 Engineering geology**	**14:30–16:00 Session 8D: G12 Geomophology, Quaternary Geology and Speleology**	**14:30–16:00 Session 8E: G23 Minerology, Petrology, Volcanology, Ore deposits and Mineral Exploration**
14:30	*Maria Stavropoulou, Konstantinos Soukis, Haralambos Kranis, Emmanuel Skourtsos and George Exadaktylos* Numerical modeling of fault genesis in the Santorini-Amorgos basin: an interplay of tectonic forces and magmatism	*Faedra-Tzesi Zanai, Penelope Papadopoulou, Nikolaos Depountis, Panagiotis Pelekis and George Iliopoulos* Integrating micropalaeontological, geotechnical and sedimentological data to reconstruct the palaeoenvironmental evolution of Mesolongi Lagoon	*Natalia Spanou* Cyclone Daniel's Impact: A Study of Geohazards in Meteora, Greece	*Foivos Klimis, Olga Sykioti, Efthimios Karymbalis and Isaak Parcharidis* Lunar Pits: Statistical Analysis of Morphometric and Geophysical Properties	*Nikolaos Sofis, Efthymios Ntouros and Stavros Kalaitzidis* REE distribution in the b1 bauxite strata of the Parnassos–Giona Unit, Greece
14:45	*Marco Liuzzo, Cinzia Federico, Fausto Grassa, Christos Kanellopoulos, Kostas Kyriakopoulos, Spyros Lalechos, Maria Manousaki, Barbara Nisi, Giancarlo Tamburello, Franco Tassi, Orlando Vaselli, George Vougioukalakis, Antonio Paonita, Francesca Bianco and Walter D'Alessandro* Preliminary results of the fluid geochemistry surveillance campaigns on Santorini island (Greece) after the 2025 Anydros seismic sequence	*Vasilis Golfinopoulos, David J. W. Piper, Avraam Zelilidis, Georgia Pe-Piper, Penelope Papadopoulou, Nicolina Bourli and George Iliopoulos* Palaeoenvironmental Interpretation and Soft Sediment Deformation of the Ionian Basin Lower Jurassic Formations in Astakos (Western Greece)	*Nikos Mourtzas, Antonis Gkiolas, George Papacharalambous, Anastassios Tsakonas and Eleni Kolaiti* Slope stability rehabilitation in the traditional settlement of Chora, Andros Island, Greece	*Maria Groumpou, Ioannis Koukouvelas, Konstantinos Nikolakopoulos, Josep Sanjuan, Penelope Papadopoulou and George Iliopoulos* The Pheneos palaeolake in N. Peloponnese, Greece	*Georgia Karountzou, Maria-Roi Panagiotaki, Dionisis Semitekolos and Costas Charitidis* Evaluation of Greek clay for pottery applications
15:00	*Gerasimos Papadopoulos, Ioanna Triantafyllou, Constantinos Siettos and Konstantinos Spiliotis* Foreshock-aftershock discrimination in real-time during the 2025 seismic cluster near Santorini volcano, Greece, based on earthquake statistics and complex networks theory	*Olga Koukousioura, Paraskevi Nomikou, Adam Woodhouse, Shun Chiyonobu, Paraskevi Polymenakou, Tim Druitt, Steffen Kutterolf, Thomas Ronge, Sarah Beethe, Alexis Bernard, Carole Berthod, Hehe Chen, Acacia Clark, Susan DeBari, Sofia Della Sala, Tatiana Fernandez-Perez, Ralf Gertisser, Christian Hübscher, Raymond Johnston, Christopher Jones, Kumar Batuk Joshi, Anna Katsigera, Stephanos Kilias, Gunther Kletetschka, Xiaohui Li, Michael Manga, Molly McCanta, Iona McIntosh, Abigail Metcalfe, Antony Morris, Katharina Pank, Vasiliki Papadimitriou, Ally Peccia, Jonas Preine, Masako Tominaga, Yuzuru Yamamoto, Takeru Yoshimoto and Dimitrios Papanikolaou* Foraminiferal response to a giant shallow-marine pyroclastic-flow-eruption from ancestral Santorini discovered by IODP Expedition 398 – Objectives, challenges and results of deep drilling into Christiana-Santorini-Kolumbo volcanic field	*Dimitris Pepas, Vassilios Marinos, Pavlos Nomikos and Charalampos Saroglou* Investigating the failure characteristics of several rock types using the Acoustic Emission technique	*Georgios Lazaridis, Bogdan Onac, Jo De Waele, Konstantinos Vouvalidis, Spyridon Gkelis, Vasilis Gerovasileiou, Konstantinos Trimmis, Kimon Papadimitriou, Panagiotis Georgiakakis, Kaloust Paragamian, Despina Dora, Savvas Paragkamian, Markos Digenis, Foteini Sdraka, C. Alexandropoulou, T. Alikakou, C. Arvaniti, N. Chatzinikolaou, K. Chavanidis, X. Georgopoulou, A. Giannopoulou, D. Koumparelou, C. Lytra and I. Simoglou* Field-Work Methods in Speleology: A Multidisciplinary Training Approach	*Christos L. Stergiou, Grigorios-Aarne Sakellaris, Margarita Melfou, Vasilios Melfos, Lambrini Papadopoulou and Christos Stefanou* Insights from the mineralogy and mineral chemistry of the antimony mineralization at Philadelphio, Vertiskos Unit, Northern Greece
15:15	*Simon Bufféral, Pierre Briole, Aurélien Dupont, Javier Escartin and Philippe Heinrich* Tsunami Modelling for a Potential Earthquake between Santorini and Amorgos (Greece)	*Dimitra Valavani, Penelope Papadopoulou, Peter Frenzel, Mauro Alivernini, Maria Tsoni, Maria Groumpou, Theodora Tsourou, Silvia Kolomaznik, Magdalena Kreuzheck and George Iliopoulos* Boosting Cave Ostracods Biodiversity: A case study from the Cave of the Lakes (Chelmos Vouraikos UNESCO Global Geopark, Peloponnese, Greece) with report of a new species of Trapezicandona	*Nikolas Vagionakis, Konstantinos Diamantis, Maria Stavropoulou and Emmanouil Andreadakis* Application of UAVs in Rockfall Hazard Assessment and Mitigation Measures in the Vrachon Theatre, Byron Area, Greece	*Konstantinos Tsanakas, Alessia Sorrentino, Gaia Mattei, Pietro Patrizio Ciro Aucelli and Efthimios Karymbalis* Preliminary results on the mapping of uplifted marine terraces in the Laconic Peninsula, SE Peloponnese, Greece	*Sotirios Kokkalas, Vasileios Psarros and Petros Koutsovitis* Diapiric structures in evaporites of Western Greece as potential geoenergy storage areas
15:30	*Spyridon Mavroulis, Andromachi Sarantopoulou, Maria Mavrouli, Assimina Antonarakou and Efthymios Lekkas* Increased preparedness in anticipation of an imminent disaster: actions during the early 2025 Santorini – Amorgos (Aegean Sea, Greece) earthquake crisis and lessons learned	*Eleni M. Liapi, George Iliopoulos and Nikolaos Zouros* Palaeobotanical study of the Vrisaki flora from the Lesvos Petrified Forest	*Zoe Misiri, Spyridon Lainas and Nikolaos Depountis* Hellenic Landslide Platform (He.L.P.): A Geospatial Landslide Inventory for Western Greece	*Ioannis Tsodoulos, Efthimios Karymbalis, Maria Ferentinou, Andrew Green, Konstantinos Stamoulis and Christina Gallousi* Optically Stimulated Luminescence (OSL) dating of a shell midden layer at Umhlanga Rocks, Natal North Coast, South Africa	*Margarita Melfou, Panagiotis Voudouris, Reiner Klemd, Manuel Keith, Alexandre Tarantola, Vasilios Melfos, Lambrini Papadopoulou and Nikolaos Kantiranis* Indium and tellurium enrichment in sulfides and sulfosalts at the Pefka high- to intermediate-sulfidation epithermal deposit, Rhodope, Greece
15:45	*Melissinos Paraskevas, Ioannis Katsafados, Dimitrios Anastasiou, Maria Tsakiri, Paraskevi Nomikou and Costas Synolakis* Preliminary results of High-Resolution Microgravity Monitoring During the 2025 Santorini Unrest	*Penelope Papadopoulou, George Iliopoulos, James Bendle, Kimon Christanis, Stavros Kalaitzidis, Eleni Liapi, Konstantinos Perleros, Nikolaos Soulakelis, Marianthi Tzortzi and Nikolaos Zouros* West Akrocheiras section: a pilot multi-proxy palaeoenvironmental analysis	*Charalampos Saroglou, Vasileios Kallimogiannis, Athina Tsirogianni and Georgia Klironomou* Stabilisation of volcanic rock slopes in traditional settlements. The case of Petra, Lesvos Island	*Christos Pennos, Maria Perraki, Sofia Pechlivanidou, Rannveig Øvrevik Skoglund, Christos Salmas, Eleni Vasileiou, Yorgos Sotiriadis and Markos Vaxevanopoulos* Assessing Microplastic Pollution in Atzinolakas caves, Crete: Implications for Remote Karst Aquifers	*Eftychia Peristeridou, Vasilios Melfos, Panagiotis Voudouris, Lambrini Papadopoulou, Jaroslav Pršek and Nikolaos Kantiranis* Mineralogical composition and mineral chemistry of the listvenite-hosted mineralization in Kato Vyrsini area, Thrace, Greece
16:00	*Jan Mrlina* Gravity monitoring at Santorini volcanic island, Greece	*Aris Toska and Elizabeth Stathopoulou* The effect of microorganisms in the fossilization of skeletal material			
16:00–16:30	**COFFEE BREAK**				

Thursday, May 29th

POSTERS

Session 7G: G24 Palaeontology, Stratigraphy and Sedimentology	
65	*Theodoros Papadopoulos, Sofia Pechlivanidou, Michael Foumelis and Christos Pennos* Image-based grain size analysis of coastal sediments
78	*Leonidas Moforis, George Kontakiotis, Assimina Antonarakou, Alexandra Zambetakis-Lekkas, Ahmad Sajjad, Panagiotis Paschos, Dimitrios Galanakis, Christos Kanellopoulos, Sotiris Sboras, Hammad Tariq Janjuhah, Ilias Lazos and Vasileios Karakitsios* Biostratigraphy, Sedimentary Microfacies, and Depositional Environment of the Paleocene-Early Eocene Calciturbidites in Gardiki Section (Epirus, Western Greece)
104	*Shoaib Ahmed Khan, Theodora Tsourou, Emmanuel Skourtsos, Konstantinos Soukis, Ioannis Michailidis, Elisavet Skampa and Maria Triantaphyllou* Micropaleontological and paleoenvironmental study of carbonate intercalations within Boeotia (Greece) clastic formations
143	*Vasiliki Grigoria Dimou, Olga Koukousioura, Gyorgy Less, Maria Triantaphyllou, Margarita Dimiza, Georgios Syrides and Martin Langer* Microfacies and species richness analyses of middle-late Eocene western Thrace Basin (Neotethys Ocean, Greece): Paleoenvironmental evolution and species-richness hotspot revealed
180	*Georgia Kostaki, Hans-Juergen Gawlick, Adamantios Kilias, Sigrid Missoni, George Ghon and Emmanouil Katrivanos.* The Koziakas Mélange Unit: New perspectives on Its Mesozoic paleogeographic and geotectonic evolution (Central Greece)
257	*Theodora Tsourou, Nikolaos Sakoulas, Aggeliki Paraskevopoulou, Ifigeneia Perraki and Maria Triantaphyllou* Stratigraphic assignment of the Mesozoic shallow carbonate succession of Epos Mountain, Chios Island, Greece

Waterfall "Vathilimnos" Chydira

Session 7H: G06 Engineering Geology	
3	*Panagiotis Paschos* Stone bridges. Resilience to catastrophic phenomena
48	*Kerasia Ziazopoulou, Constantinos Loupasakis, Konstantinos Laskaridis, Michael Patronis, Angeliki Arapakou and Ioannis Kouseris* Utilizing ultrasound velocity measurements to estimate physicomechanical properties of carbonate ornamental rocks
82	*Nikolaos Antoniadis and Constantinos Loupasakis* Land Subsidence and Flooding in the East Thessaly Plain: A Historical Overview
193	*Anastasios Tsikrikis, Vassilis Marinos and Theodosis Papaliangas* The influence of mineralogy on the nondilatant friction angle of rock fractures
248	*Nikolaos Panagiotis Chatzigogos, Agisilaos Poulios and Thomas Makedon* Settlements in residual soils
289	*Dimitrios Tsagkas, Foteini Chalkiopoulou, Giorgos Kanakidis and Alexia Charmalia* Contribution of Engineering Geology to the rescuing and enhancing of cultural works and constructions. Case study: The fountain at the Antaeus and Gennaios Kolokotronis streets' junction in the Amalia Merkouri Square in Petralona.

Session 7F: S06 Applied Geology and Geohazards	
86	*Vasileios Boumpoulis, Maria Michalopoulou, Anastasios Kazolias, Maria Geraga, Nikolaos Depountis and George Papatheodorou* Development of an index-based methodology for assessing coastal vulnerability at a national scale and preliminary results
93	*Athanasios Agrafiotis, George Papathanassiou and Sotiris Valkaniotis* Monitoring the evolution of landslide phenomena using new technologies location: Pyrra Trikala
141	*Stefania Nisio, Sergio Madonna, Giancarlo Ciotoli, Gentili Francesco and Livio Ruggieri* Sinkholes, roads and exceptional transports, a risk to be assessed
188	*Dimitra Rapti* Assessment of natural and anthropogenic contamination of the sediments in the Sacca di Goro lagoon (Po river delta, northern Italy)
192	*Dimitra Rapti, George Papathanassiou, Sotiris Valkaniotis, Maria Taftsoglou and Riccardo Caputo* Liquefaction susceptibility in delta environments: the case of the Po delta area (northern Italy)

POSTERS

Session 7I: G12 Geomophology, Quaternary Geology and Speleology	
277	*Vasileios Mazarakis, Konstantinos Tsanakas, Noam Greenbaum, Dimitrios Vasileios Batzakis, Alessia Sorrentino, Ioannis Tsodoulos, Kanella Valkanou and Efthimios Karymbalis* Application of GIS-Based Multicriteria Decision Analysis and Analytic Hierarchy Process for Flood-Hazard Mapping in the Messapios River Basin, Central Evia Island, Greece
280	*Theodora Karympali* The role of painting as a historical indicator of relative sea-level change: a review
296	*Paraskevi Chantzi, Sofia Doani and Konstantinos Albanakis* Sediment dynamics in the Sperchios river basin and their influence on stevia cultivation
30	*Stefania Alexandra Andriopoulou Mounteanou, George Bathrellos and Hariklia Skilodimou* Flood events over the past 115 years in the Municipality of Patras, southern Greece
37	*Erasmia Galazoudi, George Bathrellos, Hariklia Skilodimou, Ioannis Koukouvelas and Konstantinos Nikolakopoulos* Evolution of map-making from prehistoric times to the Middle Ages
221	*Iraklis Kalogeropoulos, Georgios Lazaridis and A. Tsekoura* Methodology of cave mapping: comparison of surveys
227	*Kyriaki Fellachidou and Georgios Lazaridis.* Underground rivers in Greece
230	*Kanella Valkanou, Efthimios Karymbalis and Konstantinos Tsanakas* Investigating the interaction between Flood Hazard and Soil Erosion in Northern Evia Island, Greece, using GIS Morphometric Analysis
264	*Antonia Dretaki, Panagiotis Sotirios Dittopoulos, Alexandros Chatzipetros, Vasilios Papavasiliou, Vasilios Papavasiliou, Nikolaos Paspaliaris, Georgios Tsirakakis and Evangelos Perakis* Formation of Sitia's Geopark (Crete Island, Greece) caves in correlation with the structural setting of the area

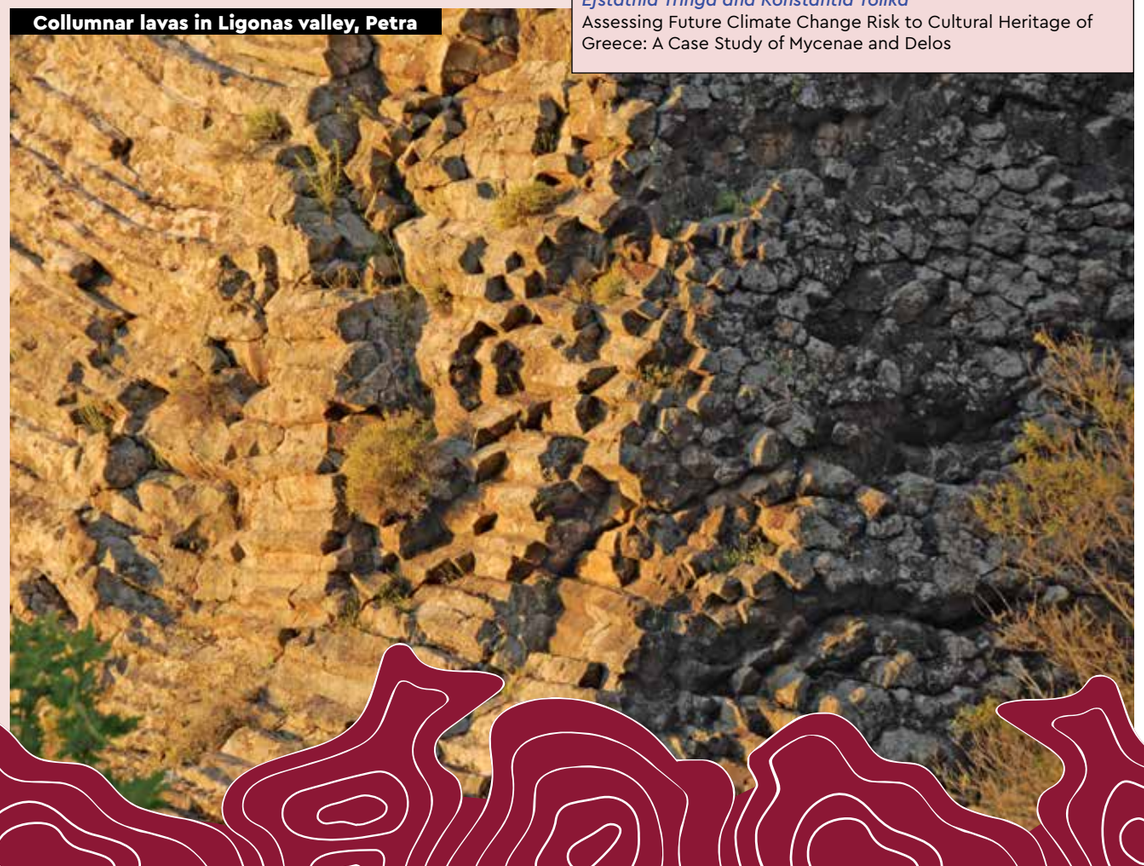
Session 7J: G23 Minerology, Petrology, Volcanology, Ore deposits and Mineral Exploration	
58	*Athanasia Theodora Karachaliou, Dimitrios Vogiatzis and Nikolaos Kantiranis* Preliminary results of physicomechanical properties of lightweight mortars using palygorskite as sand replacement
60	*Despoina Tektonidou, Panagiotis Voudouris, Constantinos Mavrogonatos, Federica Zaccarini, Vassilios Melfos, George Soulamidis, Ariadni Afroditi Georgatou, Evgenia Serfa, Degao Zhai, Manuel Keith, Alexandre Tarantola, Stylianos Tombros, Dimitrios Alifieris, Margarita Melfou, Evangelia Zygouri and Christos Kanellopoulos* The Megala Therma-Katsilemonas gold-silver mineralization, Lesvos island, Greece: a new alkalic-type epithermal deposit in Greece?
106	*Argyrios Periferakis, Lamprini Troumpata, Aristodemos-Theodoros Periferakis and Konstantinos Periferakis* Coal and Asbestos Mining-Induced Pulmonary Pathologies: Radiological Diagnosis and Associated Challenges
115	*Loukia Skontovolou, Paraskevi Lampropoulou, Ioannis Baskoutas, Christina Raptopoulou, Panagiota P. Giannakopoulou, Aikaterini Rogkala, Aggeliki Kareli, Prokopis Savvatis and Petros Petrounias* Mineralogical and petrographic characterization of different limestones used as raw materials in the cement production
189	*Efthymios Ntouros, Nikolaos Sofis, Maria Ellie Damoulianou, Margarita Iatrou, Tassos Grammatikopoulos, George Papaptheodorou and Stavros Kalaitzidis* Characteristics of REE mineralization in bauxite strata and in bauxite residue deposited into the Corinth Gulf, Greece3
212	*Panagiota P. Giannakopoulou, Aikaterini Rogkala, Paraskevi Lampropoulou, Petros Koutsovitis, Maria Kalpogiannaki, Vasileios Giamas, Odyseas Seikatis, Ihtisham Islam and Petros Petrounias* Correlation study of overland and marine aggregates capable to be used in various construction applications
265	*Spyridon Strongylis, Grigorios Aarne Sakellaris, Nikolaos Kantiranis and Alexandros Chatzipetros* Threshold Value Analysis in Geochemical Mapping for Gold-Only Vein-Type Mineralization
266	*Nikoleta Passali, Grigorios Aarne Sakellaris, Margarita Melfou, Lamprini Papadopoulou and Nikolaos Kantiranis* Mineralogy and Geochemistry of the polymetallic nodules of the Clarion Clipperton Zone, NE Pacific.
290	*Anastasios Kyriakos, Grigorios Aarne Sakellaris, Vasilios Melfos, Christos L Stergiou, Lambrini Papadopoulou and Nikolaos Kantiranis* Mineralogy and Geochemistry of the Non-Sulfide Zinc-Lead Deposits, Thasos Island, North Aegean, Greece

Thursday, May 29th

	AMPHITHEATRE	POSTERS
9	**16:30–18:00 Session 9A: S01 Central Ionian Islands and Corinth Gulf: A rapidly deforming area**	**Session 8E: S01 Central Ionian Islands and Corinth Gulf: A rapidly deforming area**
16:30	*Konstantina Kantareli and Vassilis Sakkas* Investigating crustal deformation of Zakynthos Island using Satellite Interferometry (InSAR): pre- and post- seismic analysis of the October 25, 2018 earthquake	**31** *Stefania Alexandra Andriopoulou Mounteanou, George Bathrellos, Hariklia Skilodimou, Angeliki Adamaki, Vassilis Anagnostou, Stylianos Bitharis, Pavlos Bonatis, Michalis Foumelis, Vassilis Karakostas, Ion-Anastasios Karolos, George Kaviris, Christos Kourouklas, Eleftheria Papadimitriou, Elena Papageorgiou, Christos Pikridas, Vassilis Sakkas, Ioannis Spingos and Angelos Zymvragakis* HOMEROS project for natural hazards: An example from northern Peloponnese, Greece
16:45	*Christos Kourouklas, Pavlos Bonatis, Eleftheria Papadimitriou and Vasileios Karakostas* Fault-based recurrence models and occurrence probabilities of large earthquakes (M≥6.0) in the Corinth Rift, Greece	
17:00	*Vasilis Anagnostou, Eleftheria Papadimitriou, Vasileios Karakostas and Torbjörn Bäck* Detailing the stress pattern in the area of central Ionian Islands	**44** *Vasilis Anagnostou, Pavlos Bonatis, Vasileios Karakostas, Christos Kourouklas, Eleftheria Papadimitriou, Angeliki Adamaki, Stefania Alexandra Andriopoulou Mounteanou, George Bathrellos, Stylianos Bitharis, Michalis Foumelis, Ion-Anastasios Karolos, George Kaviris, Elena Papageorgiou, Christos Pikridas, Vassilis Sakkas, Hariklia Skilodimou, Ioannis Spingos and Angelos Zymvragakis* Fostering FAIR approaches to the seismological data life cycle
17:15	*Varvara Tsironi, Jean-Mathieu Nocquet, Athanassios Ganas, Efthimios Sokos and Ioannis Koukouvelas* Crustal Block Kinematics in Western Greece using geodetic data	
17:30	*Panagiotis Elias, Gaetano Festa, Lauro Chiaraluce, Pascal Bernard, George Kaviris, Christos Evangelidis, Efthimios Sokos, John Clinton, Alexandru Marmureanu, Simona Colombelli, Mariano Supino, Dimitris Paronis, Vassilis Karastathis, Men-Andrin Meier, Semih Ergintav, Alessandro Vuan, Tomas Fischer, Stanka Sebela, Dimitris Paliatsas, Anna Serpetsidaki and Andreas Karakonstantis* EU funding to integrate cutting-edge methodological and technological solutions, enabling the development of a next-generation network of Near Fault Observatories across Europe (project TRANSFORM^2)	**61** *Pavlos Bonatis, Vasileios Anagnostou, Vasileios Karakostas, Christos Kourouklas, Eleftheria Papadimitriou, Angeliki Adamaki, Stefania-Alexandra Andriopoulou-Mounteanou, George Bathrellos, Stylianos Bitharis, Michael Foumelis, Ion-Anastasios Karolos, George Kaviris, Elena Papageorgiou, Christos Pikridas, Vassilis Sakkas, Hariklia Skilodimou, Ioannis Spingos and Angelos Zymvragakis* Cultivating FAIR principles for multi-hazard assessment
17:45	*Vasilis Kapetanidis, Ioannis Spingos, Christofer Kaltsas and George Kaviris* Application of a machine-learning model for the determination of focal mechanisms in the area of the Corinth Rift Laboratory Near-Fault Observatory (CRL NFO), Central Greece	

AMPHITHEATRE		
10	**18.00–19.30**	Special session of the Association of the Greek Geologists With the support of the Geological Society of Greece and the Geotechnical Chamber of Greece ***"Strategic and critical mineral raw materials: Mining approach and prospects for their exploitation in Greece"***

ROOM B	ROOM C
16:30–18:00 Session 9C: G06 Engineering Geology	**16:30–18:00 Session 9D: G04 Climatology – Palaeoclimatology**
Alexandros Wilfred Irakliotis and George Papathanassiou Rock slope stability analysis on the road axis of Kleisoura – Kastoria, Greece	*Kareem Tonbol* Climatic Variability and Wind Pattern Shifts in Alexandria: Twenty Years of Data to Guide Coastal Resilience in Northern Egypt
Alkistis Antonopoulou, Nikolaos Depountis and Sotirios Kokkalas Geological suitability in remote mountainous settlements using the AHP method. The case study of the settlement of Klepa in Greece	*Effie Kostopoulou, Christos Giannakopoulos, Constantinos Nefros and Constantinos Loupasakis* Assessing Climate Extremes as Drivers of Geohazards in Greece
Katerina Kavoura, Garyfalia Konstantopoulou and Panagiotis Paschos Rainfall-induced landslides in Corfu island: effectiveness of the regional scale landslide susceptibility map	*Amalia Gasteratou and Effie Kostopoulou* Climatological analysis and Trend Assessment of Climate Indices in two forest areas of Greece experienced extreme fire events in 2023.
Orestis Kontopidis, Alexandros Theocharis, Nikolaos Koukouzas, Jan Burda and Ioannis Zevgolis Interpretation of CPTu data for mining slope stability assessment in reclamation projects: The case of pit Lake Most, Czech Republic	*Efstratios Avgerinos, Efthymia Kostopoulou, Ioannis Tegoulias and Christos Giannakopoulos* Impacts of Climate Change on Maritime Conditions and Medicane Formation: Analyzing SST Changes in the Eastern Mediterranean (1940–2023) using Thematic Maps
	Efstathia Tringa and Konstantia Tolika Assessing Future Climate Change Risk to Cultural Heritage of Greece: A Case Study of Mycenae and Delos



Collumnar lavas in Ligonas valley, Petra

Friday, May 30th

		AMPHITHEATRE
		Session 11: Keynote Lecture
11	**09:00–09:30**	*Costas Synolakis, Academy of Athens – University of Southern California* Tsounamis in the Aegean

	AMPHITHEATRE	ROOM A	ROOM B	ROOM C	ROOM D
12	**09:30–11:30 Session 12A: G22 Natural Hazards**	**09:30–11:30 Session 12B: G28 Structural Geology, Tectonics and Geodymanics**	**09:30–11:30 Session 12C: G17 Hydrogeology**	**09:30–11:30 Session 12D: S10 Geoconservation and Geoparks**	**09:30–11:30 Session 12E: S04 Earthquake Geology and new data on active faulting in Europe and Greece**
09:30	*Ioannis Michalakis, Eleni Tsolaki, Constantinos Loupasakis, Konstantinos Voudouris and Charalampos Kontoes* Preliminary Results on Land Subsidence Induced by Groundwater Overexploitation Using Copernicus Sentinel Data: Insights from the Messara Basin, Crete	*Dimitrios Papanikolaou, Paraskevi Nomikou and Danai Lambridou* Volcanism and the metamorphic core complexes of Rhodope and Cyclades	*Panos Ntontos* Evaluation of National Groundwater Monitoring Network at the Peloponnese, Greece	*Nikolaos Zouros, Ilias Valiakos, Konstantina Bentana, George Grimpilakos, Eystratios Zgournios, Nikolaos Tsoukalas, Michail Georgitsis, Loukas Savvelos, Maria Agiasoti, Nikolaos Grammenopoulos, Ioannis Chorafas and Nikolaos Salamparchos* Excavations in the Lesvos Petrified Forest – A significant geo-conservation project alomg the Kalloni-Sigri road, in the Lesvos island UNESCO Global Geopark, Greece	*Spyros Pavlides, Sotirios Sboras, Ilias Lazos, Evaggelos Mouzakiotis and Vassilios Karastathis* The Fira fault, Santorini (Thera): morphotectonic, geomorphological and seismological evidence of fault activity
09:45	*Alexandra Gemitzi, Odysseas Kopsidas, Foteini Stefani, Apostolos Polymeros, Vasilis Bellos and George Falalakis* A flood hazard assessment tool using satellite based high resolution land cover dataset within Google Earth Engine	*Dimitrios Ioannidis, Emmanouil Katrivanos and Alexandros Chatzipetros* Geological study of the basement structure in the wider arera of Filiro (Circum-Rhodope Belt, central Macedonia, Greece)	*Dimitrios Pyrgakis, Vasiliki Stavropoulou, Eleni Kaskani, Maria Papailiopoulou, Christos Pouliaris, Dimitra Lampropoulou, Eleni Zagana, Konstantinos Chalikakis and Nerantzis Kazakis* Hydrogeological and hydrochemical investigations of Selinous basin region	*Dina Ghikas and Anna Batsi* The Art of Stone in Grevena-Kozani UGGp: Community-led Conservation Efforts	*Athanassios Ganas, Varvara Tsironi, Georgios Goutsos, Eirini Efstathiou, Christina Tsimi, Nikolaos Madonis and Vasileios Georgakopoulos* NOAFAULTs: 12-yrs of studies and investigations towards building a geospatial database for active faults in Greece and surrounding areas
10:00	*Anna Katsigera, Paraskevi Nomikou, Paraskevi Polymenakou, Sergio Sciré Scappuzzo, Gianluca Lazzaro, Aggelos Mallios, Valsamis Ntouskos, Sotiris Spanos, Christos Antoniou, Andrea Luca Rizzo, Manfredi Longo, Javier Escartin, Konstantinos Karantzalos, Walter D Alessandro, Lars-Eric Heimburger, Stephanos Kilias, Theodoros Mertzimekis, Fausto Grassa, Danai Lampridou, Eirini Anagnostou and Vasiliki Papadimitriou* SANTORY shallow seafloor observatory: First time series data from an active submarine volcano	*Paris Xypolias, Nikolaos Gerogiannis, Eirini Aravadinou and Konstantinos Apostolos Tsourtis* Spatial distribution and deformation of columnar calcite occurred in the high-pressure marbles of Cycladic Massif (Hellenides)	*Maria Margarita Ntona, Vasiliki Stavropoulou, Dimitra Lampropoulou, Eleni Zagana, Christos Pouliaris and Nerantzis Kazakis* Assessment of groundwater quality and seasonal dynamics in Chortiatis, northern Greece: Insights for sustainable resource management	*Lemonia Moysidou, Ermioni Eirini Papadopoulou, Stavros Proestakis, Nikolaos Zouros and Nikolaos Soulakellis* Multiscale 3D mapping and Geovisualization of a Petrified Forest Park in Lesvos, Greece, using UAV.	*Davide Russo and Riccardo Caputo* Rheological behaviour along the Hellenic Subduction Zone and the Adria-Eurasia continental collision
10:15	*Maria Filomena Loreto, Valentina Ferrante, Marco Ligi, Filippo Muccini, Camilla Palmiotto, Lorenzo Petracchini, Stefania Romano, Athanassios Ganas, Andrea Argnani, Alessia Conti, Marco Cuffaro, Alenssandra Pensa, Sotiria Kothri, Danai Lampridou, Irene Merino, Cesar R. Ranero and Paraskevi Nomikou* Mapping the active Faults affecting Ionians Islands, Western Hellenic Arc	*Erwin Kunz* The Xerias Window near Argos (Peloponnesus)	*Panagiotis Sampatakakis, Marietta Theodoropoulou, Maria Tzima and Christos Christidis* Result of an inventory program (SAMY) of boreholes of various uses and their contribution to the water balances of groundwater systems.	*Theofilos Toulkeridis, Aaron Addison, Silviu Constantin and Grace Tatiana Páez-Barrera* Ecuadorian candidates for the World Natural Heritage List – The Triple Volcano and Tayos caves	*Evdokia Papadopoulou and Alexandros Chatzipetros* An integrated approach using Remote Sensing and the Environmental Seismic Intensity Scale ESI 2007 for three major earthquakes in the Aegean region
10:30	*Charalampos Fassoulas, R. Tamborrino, P. Bolca, G. Marra, G. Mezzalama, V. Tackacs, N. Leonhardmair and M.E. Demir* Assessing the management of Arkalochori EQ crisis in Crete, Greece under the implementation of RESILIAGE project in order to strengthen community resilience	*Jan Mrlina* Density modeling based on gravity survey at faulted area around Aigion, Gulf of Corinth, Greece	*Maria Papailiopoulou, Paraskevi Apostolopoulou, Vasiliki Stavropoulou, Christos Pouliaris, Nerantzis Kazakis and Eleni Zagana* Hydrochemical characterization of multi-layer porous aquifer of Larissos system, Peloponnese	*Loukas Savvelos and Nikolaos Zouros* Mapping pyroclastic formations at the Lesvos Petrified Forest, Greece the Bali Alonia area pyroclastic sequence	*Salvatore Giuffrida, Letizia Anderlini, Shannon Graham, Francesco Carnemolla, Fabio Brighenti, Giorgio de Guidi, Flavio Cannavò and Riccardo Caputo* Investigating the interseismic coupling degree of the northern Apennines external Arc in Emilia Romagna region, (northern Italy)
10:45	*Athanassios Ganas, Dimitrios Anastasiou, Georgios Mavropoulos, Ioannis Karamitros, Konstantinos Nikolakopoulos and Varvara Tsironi* Ground motion monitoring with low-cost multi-GNSS installations in Achaia, western Greece			*Christos L. Stergiou, Haritakis Papaioannou, Grigoria-Vasiliki Dimou, Eftychia Peristeridou, Margarita Melfou, Aristeidis G. Stamatiadis, Vasilios Melfos, Olga Koukousioura and Georgia Kitsaki* Sedimentary, Metamorphic, and Igneous Rocks in Harmony: Unveiling the rocky microcosm of the Vikos-Aoos UNESCO Global Geopark	*Riccardo Caputo, Iannis Koukouvelas, Giorgos Papathanassiou, Davide Russo, Maria Taftsoglou, Gabriele Tarabusi and Sotiris Valkaniotis* The Greek Database of Seismogenic Sources (GreDaSS) version 3.0. A compilation of potential seismogenic sources (Mw> 5.5) in the Aegean Region
11:30–12:00	**COFFEE BREAK**				

Friday, May 30th

POSTERS

Session 10F: G22 Natural Hazards	
151	*Davide Bartolozzi, Sotiria Kothri, Maria Filomena Loreto, Nomikou, Ganas, Valentina Ferrante, Kei, Fabrizio Balsamo, Lampridou, Ranero and Nikoli* Mapping the geo-hazard elements offshore the Ionian Islands (Western Greece)
176	*Chrysoula Katsora, Evaggelos Levadiotis, Ourania Tzoraki and Nektaria Papadopoulou* Flash drought assessment: insights from Lesvos island, Greece
247	*Iatrou Alexandra, Karakostas Dimitrios, Fragkiskos Markozanes, Aikaterini Karditsa and Serafeim Poulos* Beach retreat due to sea level rise induced by climate Change: The case of the Korasida, Heromylos and Limnionas beaches of south Evia facing the Aegean Sea.
256	*Konstantina Apostolopoulou, Efthimios Karymbalis, Maria Salomidi and Evangelia G. Drakou* Modelling Coastal Protection as an ecosystem service in the Greek coastal zone
262	*Alexandros Belesis, Ioannis Tsentzos, Maria Belesis and Ioannis Koukouvelas* Storm Daniel flooding of Larissa City: embankments failure the aftermath
284	*Nafsika Ioanna Spyrou, Michalis Diakakis, Spyridon Mavroulis, Georgios Deligiannakis, Emmanuel Andreadakis, Christos Filis, Evelina Kotsi, Zacharias Antoniadis, Maria Melaki, Marilia Gogou, Katerina-Navsika Katsetsiadou, Eirini-Spyridoula Stanota, Emmanuel Skourtsos, Emmanuel Vassilakis and Efthymios Lekkas* Combining Ground and UAV Mapping for GIS-Based Assessment of Flash Flood Impact Severity: Application of the FFISS to the 2009 and 2020 Evia (Greece) Floods
285	*Lida Lakidi, Nafsika Ioanna Spyrou, Michalis Diakakis, Christos Filis, Evelina Kotsi, Spyridon Mavroulis, Emmanuel Skourtsos, Haralambos Kranis and Efthymios Lekkas* Flood Dredge Spoils Mapping with the Use of UAS and GIS: The Case of 2020 Evia Flood

Session 10G: G28 Structural Geology, Tectonics and Geodymanics	
107	*Adonis Photiades, Isidoros Kampolis, Ioannis Vakalas and George Deligiannakis* The geological structure of the Myrtoan Sea islets
268	*Dimitra Amanatidou, Konstantinos Soukis, Christina Stouraiti and Klea Dimitri* Structural study of the Theodorion meta-migmatitic complex (Serbomacedonian massif, northern Greece)

Session 11F: G01 Active tectonics – Neotectonics	
10	*Hilal Yalçin, Levent Gülen, Bülent Kaypak, Akın Kürçer and Doğan Kalafat* Geodynamic Model of The Western Anatolia and Eastern Aegean Region In Light of Teleseismic Tomography Studies
54	*Antonia Dretaki and Alexandros Chatzipetros* Assessment of fault hazard in the broader area of Sitia, Eastern Crete
62	*Dimitris Galanakis, Dimitris Sakellariou, Sotiris Sboras, Spyros Pavlides, Kyriaki Iordanidou, Charalambos Georgiou, Athanasios Ganas, Yiannis Koukouvelas, Charalampos Kranis, Spiros Lalexos, Theodora Rondoyanni and Efthymios Lekkas* The Hellenic DataBase of Active Faults (HeDBAF): a new national geodatabase
121	*Effrosyni Varotsou, Paraskevi Nomikou, Dimitrios Papanikolaou, Serafeim Poulos, Ioannis Asteriou, Nikolaos Tsernotopoulos, Yannis Tsaparas, Ilias Koliopanos and Maria Petroulia* Morphotectonic Analysis and Geohazard Implications of the Messiniakos Gulf
149	*Areti Belka, Paraskevi Nomikou, Solveig Bühring, Konstantina Bejelou, Danai Lampridou, Alissa Bach, Sotiria Kothri, Effrosyni Varotsou and Dimitrios Papanikolaou* Morphotectonic analysis of Antimilos volcanic Group
170	*Amélie Viger, Haralambos Kranis, Athanassios Ganas and Alex Whittaker* Preliminary results on the interseismic deformation of the Argolis Peninsula, Greece

Lepetymnos Mountain

POSTERS

Session 10H: G17 Hydrogeology	
138	*Maria Nefeli Georgaki, Athanasios Georgakis, Dimosthenis Sarigiannis and Nerantzis Kazakis* Groundwater Quality Evaluation of Thessaly and Peloponnese: Data Analysis of 2019 year and Evidence of Degradation
178	*Vasilis Zorapas and Olga Chalkiadaki* Spatial distribution of trace elements in four water districts of Greece during the period 2018–2023. Results from National Groundwater Monitoring Network Program of Greece
184	*Dimitra Rapti and Dimitra Rapti* The role of hydrogeology in the sustainable exploration of shallow geothermal resources

Session 10I: S10 Geoconservation and Geoparks	
27	*Hara Drinia and George Zafeiropoulos* Enhancing Geoheritage through GEOAM: A Case Study of Tinos Island, central Aegean Sea, Greece
38	*Emmanouil Manoutsoglou* The 'treasure' of aeolianites on the coastal front of Marathopoli Dialiskari, Messinia, Western Coast of the Peloponnese: rhizoliths petrified forest and historical abandoned quarries
105	*Alexandros Aristotelis Koupatsiaris and Hara Drinia* A systematic review of grey literature in Greek universities repositories to uncover Greek UNESCO Global Geoparks
244	*Hara Drinia and Georgios Zafeiropoulos* Tinos Island, Aegean Sea, Greece, Geopark: A Pioneering Initiative in Climate Change Resilience and Geoconservation

Session 11G: S12 Aspects of natural hazard and disaster mitigation: Contributions from the interdisciplinary MSc programme Natural Hazards and Disaster Mitigation	
204	*Kalliopi Elli Fragkouli, Georgios Drakatos, Spyridon Pavlides and Sotirios Sboras* Seismotectonic Features of the 2023 Strong Earthquake Sequence in Southeast Turkey
317	*Parina Machaira, Effie Kostopoulou, Christos Giannakopoulos, Myrto Gratsea and Gianna Kitsara* Assessing the impact of climate change on olive cultivation in the Peloponnese, Greece: A long-term analysis using climate indices

Nissiopi Petrified Forest

Friday, May 30th

	AMPHITHEATRE	ROOM A	ROOM B	ROOM C	ROOM D
13	**12:00–14:00 Session 13A: G22 Natural Hazards**	**12:00–14:00 Session 13B: G01 Active tectonics – Neotectonics**	**12:00–14:00 Session 13C: G17 Hydrogeology**	**12:00–14:00 Session 13D: S09 Geotourism and Geoparks**	**12:00–14:00 Session 13E: S12 Aspects of Natural Hazard and Disaster Mitigation: Contributions from the interdisciplinary MSc programme Natural Hazards and Disaster Mitigation**
12:00	*Serafeim Poulos, George Alexandrakis, Aikaterini Karditsa, Stamatina Lesioti, Markozanes Markozanes, Ioannis Katritsis and Nikolaos Kampanis* Assessment of the exposure of coastal sectors of the Greek Mainland to hazards induced by climate change, using the Coastal Hazard Wheel	*Konstantina Bejelou, Paraskevi Nomikou, Solveig Bühring, Dimitrios Papanikolaou, Stephanos Kilias, Andrea Koschinsky-Fritsche, Wolfgang Bach, Karsten Haase, Christian Ferreira, Evgenia Bazhenova, Alissa Bach, Yukari Azakura, Danai Lampridou, Areti Belka, Eirini Anagnostou, Effrosyni Varotsou and Sotiria Kothri* Oceanographic survey M192 off Milos reveals tectonic controls on hydrothermal vent distribution in a complex volcanic-tectonic system of the South Aegean	*Nerantzis Kazakis, Ioanna Sideri, Maria Margarita Ntona, Vasiliki Stavropoulou, Dimitra Lampropoulou, Eleni Zagana and Konstantinos Voudouris* Origin of nitrate pollution in groundwater of Mygdonia Plain, Greece	*Elena Zoumpouli, Nicolina Bourli, Penelope Papadopoulou, Avraam Zelilidis, George Iliopoulos and Michalis Xanthakis* The actions of Kefalonia and Ithaca UGGp aiming at the promotion of the area through sustainable development	*Stamatia Deligianni and Alexandros Chatzipetros* Environmental Seismic Intensity Scale (ESI 2007) applied to five major seismic events that affected western Turkey
12:15	*Orestis Kontopidis, Alexandros Theocharis and Ioannis Zevgolis* A semi-quantitative multi-hazard approach for Tailings Storage Facilities	*Levent Gülen* Seismotectonics of the NE Aegean region: The Lesvos Island and the Gulf of Edremit	*Aikaterini Vardava, Vasilios Kyriakopoulos, Emmanuel Skourtsos and Christos Filis* Preliminary results on geological and hydrogeological conditions in Vilia, Attica, Greece	*Haritakis Papaioannou, Christos L. Stergiou, Spiros Staridas, Aristotelis Stagkikas and Georgia Kitsaki* Innovative Efforts in Geotourism: The Vikos-Aoos UNESCO Global Geopark	*Despoina Ioannidou and Olga-Joan Ktenidou* Integrating Geotechnical Data and Site Response Analyses in the Municipality of Chalandri, Athens, Greece
12:30	*Petros Hadjicostas and Evi Kazamia* Assessing Climate Change Impacts on Troodos Mountain (Troodos UNESCO Global Geopark area) Through Methodological Approaches and Community Engagement in the ClimEmpower Project	*Charalampos Fassoulas*, *Spyridon Staridas* and *Emmanouel Nikolakakis* Local driven protection of a tectonic geosite, in Crete, Greece: The Paligremnos Protected Landscape	*Emmanuel Skourtsos, Christos Filis, Emmanuel Vassilakis, Aliki Konsolaki, Evangelia Kotsi and Efthimios Lekkas* The role of the epikarst zone in the influx of water and the manifestation of humidity at the Holy Monastery of Kleiston, Mount Parnitha, Attica, Greece	*Isidoros Kampolis, Panagiotis Voudouris and Evgenia Moraiti* The pseudokarst at the Kaki Thalassa Bay reveals unknown ancient mining activities (Lavreotiki UNESCO Global Geopark)	*Stella Arnaouti and Olga-Joan Ktenidou* Seismic resilience of primary water transfer network at Lagadas municipality, North Greece
12:45	*Dimitrios Chatzistratis, Isavela Monioudi, Theodoros Chalazas, Olympos Andreadis, Konstantinos Moschopoulos, Antonis Chatzipavlis, Fotis Psarros and Adonis Velegrakis* Flood risk of a touristic island beach under Climate Change: Komi beach Chios	*Phaedra Kravvariti, Andreas Tzanis, Vasileios Sakkas and Haralambos Kranis* Contemporary distributed block deformation in the South Aegean Sea (Greece), deduced by the analysis of continuous GNSS measurements	*Maria Papailiopoulou, Krystalia Chrisanthakopoulou, Vasiliki Stavropoulou, Christos Pouliaris, Nerantzis Kazakis and Eleni Zagana* Assessment of the groundwater vulnerability using DRASTIC method in Larissos watershed, Greece	*Penelope Papadopoulou, Charalampos Fassoulas, George Iliopoulos, Georgia Kitsaki, Maria Kolendrianou, Elina Mikroulea, Charitakis Papaioannou, Dimitris Pattakos, Vaggelis Perakis, Maria Tsoni and Iro Tsimpri* Expertise on Specifications – Evaluation Criteria and Design of a Special Label for Local Agrotourism Products and Services: a cooperation for the benefit of four Greek UNESCO Global Geoparks!	*Angelos Kannelos Irakleidis and Olga Joan Ktenidou* Seismic vulnerability of cultural heritage. The case of the archaeological museum of Rhodes: building performance, safety of the public and exhibits
13:00	*Mohammad Mahdi Badami, Yashar Aghaei and Constantinos Sioutas* Impact of Emission Regulations on the Temporal Trends of Toxicity of PM2.5 in Los Angeles	*Sophia Sotiropoulou, Michail Kalaitzis, Emmanuel Skourtsos, Dimitris Sakellariou and Haralambos Kranis* Plio-Quaternary tectonics and evolution of Southwestern Lesvos Island and Lesvos Basin, Greece: Transtensional deformation and relationship with the July 2017 earthquake activity	*Christos Filis, Emmanuel Skourtsos, Armela Korovesai, Emmanuel Andreadakis, Eleni Kapourani, Nikolaos Karalemas and Apostolos Alexopoulos* Preliminary estimation of the recession coefficient of the "Kefalari Agios Ioannis" spring, Dimitsana, Peloponnesus, Greece	*Georgios Lazaridis, Foteini Sdraka, M. E. Georgiadou, A. Batsi, D. Gkikas, Despina Dora and Konstantinos Trimmis* Evaluation of karst geosites in Grevena-Kozani UNESCO Global Geopark	*Eleftheria Christodoulopoulou, Olga Ktenidou and Grigorios Tsinidis* Mapping and Categorization of damage on the built and natural environment caused by the 2023 Daniel and Elias storms in Mount Pelion, Greece
13:15		*Aggelos Lamprakopoulos and Nikolaos Zouros* Contribution to the neotectonic study of West Lesvos		*Fani Tripolitsiotou, Hara Drinia and Ariadne Argyraki* Exploring Urban Geotourism Through Geomythology: A Geotrail from Faliro Bay to Vouliagmeni Peninsula, Attiki Region, Greece	*Georgia Rapti and Ourania Tzoraki* Investigation of legislation and tools for coastline demarcation: the coastline along the Kalamas delta in Thesprotia as a case study
13:30				*Martin Engi, Andreas Gialoglou, Panayiotis Koutsabasis, Valentin Laurent and Constantinos G. Mavrogonatos* The Syros GeoPark Project	*Eleni Valavani, Ilias Siarkos and Ourania Tzoraki* Overview of Legislation and Tools for Stram Flood Risk Assessment
14:00–15:00	**LUNCH BREAK**				
14	**15:00–16:00**	**CLOSING CEREMONY**			

Municipal theatre of Mytilene

Mytilene

SPECIAL PARALLEL OPEN SESSION

8 YEARS AFTER THE LESVOS 12 JUNE 2017 EARTHQUAKE – LESSONS LEARNED

UNDER TA AUSPICES OF E.P.P.O.

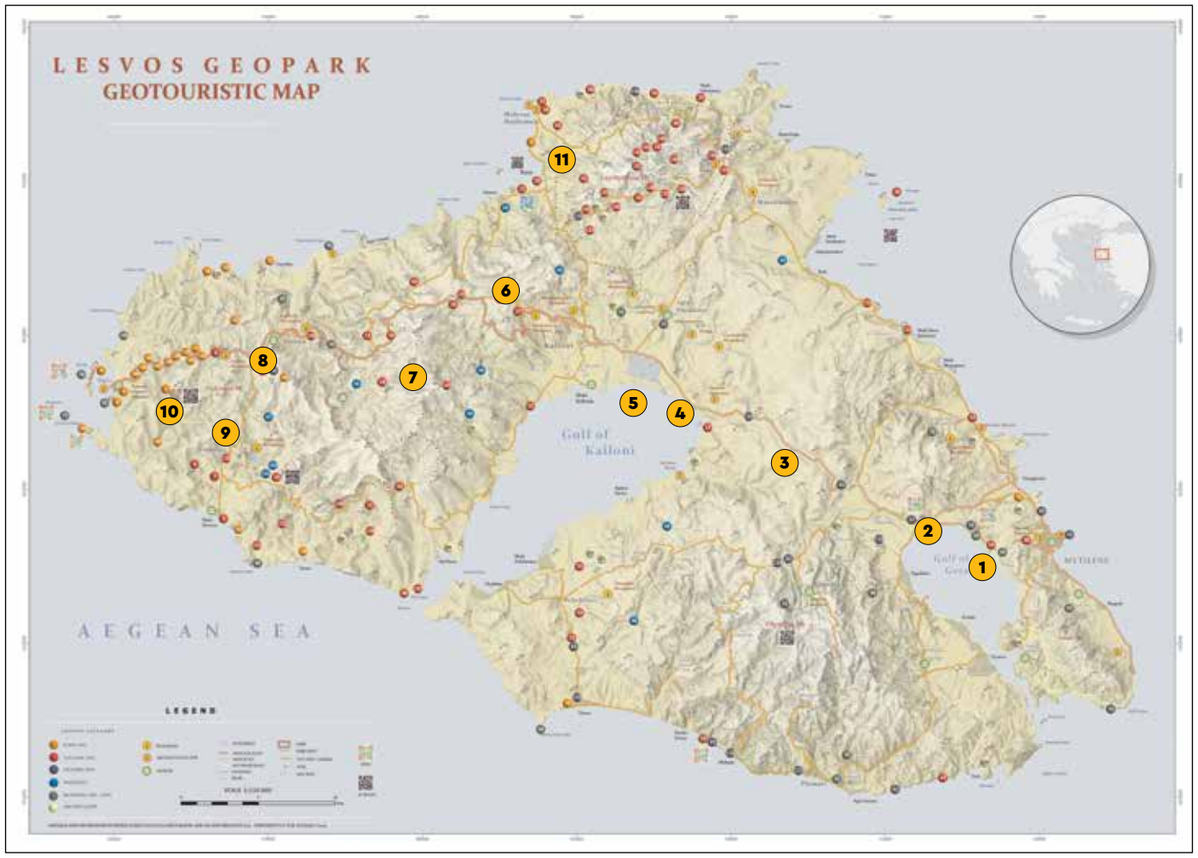
MUNICIPAL THEATRE OF MYTILENE

PROGRAMME
18.30 – 20.30
Welcome Greetings
1. Operational Actions of EPPO on the Lesvos 12 June 2017 Earthquake *Dr. E. Lekkas, Prof. Of Dynamic Tectonic and Applied Geology and Natural Disasters Management, National Kapodistrian University of Athens, President of EPPO.*
2. Pre-seismic Building Inspection *Dr. Vasileios Mokos, Civil Engineer, General Director of EPPO.*
3. The Contribution of the University of the Aegean to the Lesvos Earthquake of 12/06/2017: Lessons Learned and Challenges, *Dr. Nikos Soulakellis, Professor of the Department of Geography, University of the Aegean.*
4. Contribution of education in seismic risk management. Challenges, Experiences and Lessons Leaned from the Lesvos 12 June 2017 Earthquake *Dr. Asimina Kourou, Geologist, Dep. Supervisor of the Directorate of Social Anti-Seismic Defense EPPO.*
5. Research, educational and raisin awareness activities on disaster risk reduction after the Lesvos 12 June 2017 Earthquake *Dr. Nikos Zouros, Professor of the Department of Geography, University of the Aegean Natural History museum of the Lesvos Petrified Forest.*
6. Contribution of the Civil Protection Directorate of the Region of North Aegean on earthquake risk reduction *Dr. Dimitris Malliaros, Head of the Civil Protection Directorate of the Region of North Aegean.*
Questions – Interventions
Discussion

Ο.Α.Σ.Π.
Οργανισμός Αντισεισμικού Σχεδιασμού & Προστασίας

17th INTERNATIONAL CONGRESS
of the Geological Society of Greece

Lesvos island hosts a wealth of geological heritage sites including the famous Petrified Forest of Lesvos, areas of natural beauty, rich ecosystems and a variety of cultural monuments. All these elements contributed to the island's recognition as a UNESCO Global Geopark, the third site designation of **UNESCO.**



SCAN ME

Natural History Museum of the Lesvos Petrified Forest

SCAN ME

Lesvos Island UNESCO Global Geopark

SCAN ME

Kalloni Environmental Information Center

FIELD TRIP ON LESVOS ISLAND

	PROGRAMME
8.30	**Departure from Sappho Square**
	Subjects
1	**Introduction on the Geology of Lesvos – The metamorphic basement and the Miocene intrusions**
2	**Active faults and Hot springs of Geras Gulf**
3	**Tethyan Ophiolites Nappe**
4	**The Kalloni Bay – Aristotle's Lagoon**
5	**The Agia Paraskevi 1867 Earthquake and the active fault zone.**
6	**Miocene volcanic sequence of Central Lesvos – Domes and Calderas, Dykes and Lava flows**
7	**The pyroclastic sequence of Western Lesvos**
8	**The Lesvos Petrified Forest – Excavation sites along the Kalloni Sigri Road**
9	**The Petrified Forest Park**
13.00	**Arrival in the Natural History Museum of the Lesvos Petrified Forest**
	Light Lunch prepared by the Women Cooperative of Mesotopos
10	**Guided tour to the Natural History Museum of the Lesvos Petrified Forest**
15.00	**Departure to Molyvos**
11	**The Miocene volcanic center of Lepetymnos and the Geothermal field of North Lesvos**

17th INTERNATIONAL CONGRESS of the Geological Society of Greece

Mytilene, Lesvos Greece
28-31 May 2025

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Ο.Α.Σ.Π. Οργανισμός Αντισεισμικού Σχεδιασμού & Προστασίας

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