



# **2024**

## **IAGA-IASPEI-IAVCEI WORKSHOP**

### ***Electromagnetic Studies of Earthquakes and Volcanoes (EMSEV)***

#### ***Proposed Organizer***

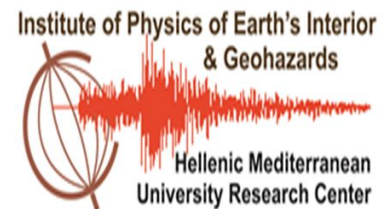
***Prof. Filippos Vallianatos , Department of Geophysics, Faculty of Geology  
and Geoenvironment, National and Kapodistrian University of Athens,  
Greece.***

***AND***

***Prof. N. Sarlis , Departments of Physics, National and Kapodistrian University  
of Athens, Greece .***

#### ***Co-organizer***

***Institute of Solid Earth Physics and Geohazards, Hellenic Mediterranean  
University Research Center, Crete, Greece***



United Nations  
Educational, Scientific and  
Cultural Organization



UNESCO Chair on  
• Solid Earth Physics and  
• Geohazards Risk Reduction



***UNESCO Chair on Solid Earth Physics & Geohazards Risk Reduction***

Place:  
*Chania*  
*Crete*  
*Greece*



- The main purpose of EMSEV is

- *a) to promote co-operation and collaboration between individuals and research groups, internationally, on observations and research into electric and magnetic effects associated with earthquakes and volcanoes and*
- *b) To promote the dissemination and discussion of relevant data and research results. It would be a great opportunity for students and young researchers to present their scientific research, and achievements as well as a valuable occasion for exchanges and interdisciplinary cooperation among researchers worldwide.*

- *Workshop on Electromagnetic studies of Earthquakes and Volcanos (EMSEV 2024) will focus on:*
- *Electric, Magnetic & Electromagnetic methods for Subsurface imaging*
- *Electric, Magnetic & Electromagnetic time series analysis*
- *Observations and modeling to understand of electromagnetic phenomena associated with earthquake activity and volcanic eruptions,*
- *Electric, Magnetic & Electromagnetic signals from laboratory to geodynamic scale*
- *Earth's Geoelectromagnetic environment*
- *Satellite Electric, Magnetic & Electromagnetic observations*
- *Mathematical methods for the detection and analysis of EM&EM signals*

International Scientific Committee

The international members will be invited  
upon the acceptance of this proposal



# Proposed Location

- ***CHANIA –Crete island***







## Center Mediterranean Architecture





- Chania Cultural Center





- **Chania Greece – The Old Town**

- The old town of Chania shows the architecture of its mixed history, Venetian mansions next to Turkish baths and cathedrals next to mosques. Highlights of the old town:
- The narrow streets and lane ways
- Local craft and art studios
- Boutiques and jewellery studios
- The small Venetian harbour
- The Venetian Lighthouse
- Fort Finca
- The Mosque of the Janissaries
- The Great Arsenal
- The Fortezza
- Restaurants by the Venetian harbour
- **Watch**  
[https://www.youtube.com/watch?v=tY3rvK\\_4b7w&list=PLrxLhQmW8aqGpU-m6Xu7C6iPV3IG0HXV\\_&index=5](https://www.youtube.com/watch?v=tY3rvK_4b7w&list=PLrxLhQmW8aqGpU-m6Xu7C6iPV3IG0HXV_&index=5)
- <https://youtu.be/KHkW38rK7Ic>

# *Useful Information for Participants*

- **Accommodation**
- **There are a variety of accommodation options for visitors since Crete –Chania is one of the most attractive places in Greece for summer holidays**



- **Getting to Chania: There are flights via Athens during the year**
- **Direct flights to Chania exist mainly till the end of October from many other places in Europe**
- **Passport/Visa Requirements**
- **Most countries are exempted from acquiring visas for entry into Greece**
- **Currency The currency of Greece is EURO**
- **Weather..... PERFECT !!!**

# The organizing Institutes



National and Kapodistrian  
University of Athens



ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ  
ΤΟΥ ΒΑΣΙΛΕΙΟΥ ΤΗΣ ΕΛΛΑΔΟΣ.  
ΑΡΙΘ. 46. 1837. ΕΝ ΑΘΗΝΑΙΣ, 24 Απριλίου.

ΣΤΟΙΧΙΣΤΩΝ ΕΝΔΕΙΞΟΜΕΝΟΝ.

ΚΑΤΑΓΡΑΦΑ. Α) περί συντάξεως τῆς νομοθετικῆς. Β) περί ὑποτάξεως νομοθετικῆς τῆς ἡλικίας. Γ) περί ὑποτάξεως νομοθετικῆς τῆς ἡλικίας.

ΒΑΣΙΛΕΥΣ ΤΗΣ ΕΛΛΑΔΟΣ.  
ΕΠΙ ΤΗΣ ΕΚΔΟΣΕΩΣ ΤΗΣ ΕΦΗΜΕΡΙΔΟΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ ΤΟΥ ΒΑΣΙΛΕΙΟΥ ΤΗΣ ΕΛΛΑΔΟΣ.  
ΑΠΟ ΤΗΣ ΕΚΔΟΣΕΩΣ ΤΗΣ ΕΦΗΜΕΡΙΔΟΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ ΤΟΥ ΒΑΣΙΛΕΙΟΥ ΤΗΣ ΕΛΛΑΔΟΣ.  
ΕΝ ΑΘΗΝΑΙΣ, 24 Απριλίου 1837.

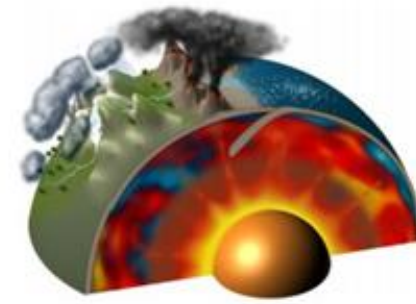
*The idea of establishing a University in Greece emerged alongside with the Greek War of Independence, also known as the Greek Revolution. The National and Kapodistrian University of Athens, officially founded **in April 14th, 1837**, is the first University not only of Greece but both the Balkan peninsula and the Eastern Mediterranean region.*

*The National and Kapodistrian University of Athens is the largest state institution of higher learning in Greece, and among the largest universities in Europe. With a student body of about **68.500 undergraduate and postgraduate students, over 2.100 members of academic staff and approximately 1.000 administrative and secretarial staff and specialised personnel**, the University of Athens aims at excellence in both teaching and research in a significantly varied range of disciplines.*





# ***CIVIS EUROPEAN UNIVERSITY PhD network in SOLID EARTH SYSTEM DYNAMICS***



## **Participant universities:**

- **National and Kapodistrian University of Athens,**
- **University of Bucharest,**
- **Sapienza Università di Roma,**
- **Stockholm University**
- **Université Libre de Bruxelles**

**Coordinator , National and Kapodistrian University of Athens,  
Prof. Filippos Vallianatos, [fvallian@geol.uoa.gr](mailto:fvallian@geol.uoa.gr)**

***Institute of Solid Earth Physics and Geohazards, Hellenic Mediterranean  
University Research Center, Crete, Greece***

***UNESCO Chair on Solid Earth Physics & Geohazards Risk Reduction***

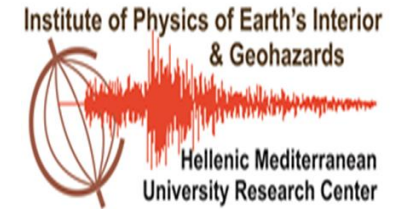
***The above institutes (as former Technological Institute in Crete) organized  
the EMSEV 1999 in Chania Crete***

***2nd International Workshop - Magnetic, Electric and Electromagnetic  
Methods in Seismology and Volcanology - Chania, Greece - September 22-  
24, 1999 - Preface***

***April 2001 Special issue in Annals of Geophysics***

***Guest Editors***

***Antonio Meloni , Patella Domenico, Filippos Vallianatos and Bruno Zolesi***



## Short profile

**Filippos Vallianatos,**

- ✓ ***Prof. of Geophysics, Department of Geophysics, National and Kapodistrian University of Athens. Athens, Greece.***
- ✓ **UNESCO Chair on Solid Earth Physics & Geohazards Risk Reduction**
- ✓ ***Director of the Institute of Physics of the Earth's Interior & Geohazards, Hellenic Mediterranean University Research Center, Crete, Greece***
- ✓ **[https://scholar.google.com/citations?hl=el&user=EMTrUsMAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=el&user=EMTrUsMAAAAJ&view_op=list_works&sortby=pubdate)**



## • CONFERENCES ORGANIZATION/CONTRIBUTION IN THE ORGANIZATION

- Member of the Local Organizing Committee of the “7<sup>th</sup> International Conference on Natural and Man-made Hazards” , HAZARDS98, (Chania 1998)
- Co-convenor in the symposium “Earthquake precursors” of the 1999 General Assembly of the European Geophysical Society (EGS99)
- *Chairman of the Organising Committee of the “2<sup>nd</sup> International workshop: Magnetic, Electric and Electromagnetic methods in seismology and volcanology” Chania 1999.*
- Convenor of the “International Workshop: Gavdos the southernmost research observatory in Europe” Chania, Crete, Greece, 2001,
- Co- convenor in the symposium “Seismoelectromagnetic phenomena” of the 2003 General Assembly of the European Geophysical Society (EGS03)
- Organizer of the 2<sup>nd</sup> Inter. Conference of WSEAS on Engineering Education, 2005.
- *Organizer of the 23<sup>rd</sup> UNESCO Workshop for the Seismicity and Earthquake Engineering in the Extended Mediterranean Region, 2005*
- Co- convenor in the symposium “Seismoelectromagnetic phenomena” of the 2007 General Assembly of the EGU
- Co- convenor in the symposium “Seismoelectromagnetic phenomena” of the 2008 General Assembly of the EGU
- *Organizer of the ESC school on Seismology, 2008*
- Coconvenor of the session “Fracture and Earthquake Physics: Modelling precursory phenomena” (Conveners: F. Vallianatos, P. Sammonds, V. Lapenna) of the 2012 General Assembly of the EGU
- *Organizer UNESCO topical meeting on Geophysics and Seismology applied in Cultural Heritage protection, Chania, Crete, 2017*
- Co-Convener in the Session NH4.5/EMRP4.27/SM3.03 «Short-term Earthquakes Forecast (StEF) and multi-parametric time-Dependent Assessment of Seismic Hazard (t-DASH) της EGU 2018.
- *Summer School on Complexity , Chania, 2022*

- Special issue in an International Scientific Journal
- Link with the Summer School in Geosciences



*Photos of Falasarna an ancient Greek harbor town on the northwest coast of Crete, where the great Earthquake [M8.3] and tsunami of 21 July A.D. 365, which wreaked catastrophic damage on all the coasts of the eastern Mediteranean, located*



*Thank you for your attention  
and  
I hope to see you in Chania, Crete Greece  
for the*

***2024***



***Electromagnetic Studies of  
Earthquakes and Volcanoes  
(EMSEV)***