

## **FILIPPAKI ELENİ**

### **PERSONAL DETAILS**

<b>First Name</b>	Eleni
<b>Surname</b>	Filippaki
<b>Specialty</b>	Geologist
<b>Address</b>	4 Thealos Street, P.O. 19015, Markopoulo, Oropos, Athens, Greece
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### **ACADEMIC DEGREES**

<b>Degree</b>	<b>Subject / Speciality</b>
<b>1991</b>	BSc of Geology, Faculty of Sciences, Aristotle University of Thessaloniki, Greece
<b>2002</b>	Doctor of Philosophy entitled "Geochemistry and Sedimentology of surface marine sediments of the Amvrakikos gulf", Section of Geological Sciences, School of Mining and Metallurgical Engineering, National Technical University of Athens

### **KNOWLEDGE OF LANGUAGES**

<b>Language</b>	<b>Level of Language</b>
English	Excellent, Proficiency Level
French	Very Good

### **EMPLOYMENT HISTORY**

<u>14/02/2017 until today</u>	Laboratory of Palaeoenvironment and Ancient Metals Studies, I.N.N., NCSR "Demokritos" <ul style="list-style-type: none"><li>• Researcher C</li></ul>
<u>01/01/2006 – 13/02/2017</u>	Archaeometry Lab, I.N.N., NCSR "Demokritos" <ul style="list-style-type: none"><li>• Research Officer</li></ul>
<u>01/01/1994 - 31/12/2001</u>	Plasma Physics Lab, I.M.S., NCSR "Demokritos" <ul style="list-style-type: none"><li>• Works contract in the frame of NATO for Science Stability Program. Installation and putting in operation a new plasma device, X-ray diffraction, X-ray fluorescence, restoration and conservation of metallic objects.</li></ul>
<u>01/01/1993 - 31/12/1993</u>	Hellenic Centre for Marine Research <ul style="list-style-type: none"><li>• Works contract in the frame of a program entitled "Geochemical Investigations of Hydrothermal Processes in Relation to the Formation of Mineral Deposits in a Convergent Plate Environment". Mineral analysis of the collected sediments.</li></ul>
<u>01/07/1989 - 31/7/1989</u>	IGME, Economic Geology Dpt. <ul style="list-style-type: none"><li>• As an undergraduate student of the School of Geology.</li></ul>

### **PARTICIPATION IN FUNDED PROGRAMS**

- *"METAL PLACES: Culture crossroads in eastern Mediterranean"*, MIS: 5050657, Interreg VA Greece – Cyprus Program "2014-2020", budget: 1.301.400,00€, 01/06/2020-31/05/2022 (*Scientific coordinator*)
- *"Assessing and modeling climate change impacts on the Kalamas river"*, NSRF, Epirus Operational Programme, budget: 90.000,00€, 01/05/2017 - 31/10/2019 (*Scientific coordinator*)

- *“Prediction and modelling of coastal zone changes using luminescence dating techniques”*, MIS 5047809, Operational Programme «Human Resources Development, Education and Lifelong Learning 2014- 2020», budget: 50.050 €, (01/06/2020 – 30/09/2021) (Scientific coordinator)
- *“Seismic Moment and Recurrence (SMR) using Luminescence Dating Techniques – SMR”*, HORIZON 2020/MSCA, (01/06/2017 – 31/05/2020)
- *THALES - UOA “The Apollo Sanctuary and the Late Roman Settlement in Halasarna (Kos). The history of an ancient sanctuary, its decline & its final transformation into a Late Roman/Early Christian settlement”*, (2011-2015)
- *Marie Curie Initial Training Network Program “NARNIA: New Archaeological Research Network for Integrating Approaches to Ancient Material Studies* (2011–2014)
- *Joint Research and Technology Program Greece-Russia, “Restoration and conservation of archaeological objects using plasma chemistry method and laser”*, (1997-1998)
- *Joint Research and Technology Program “Greece-Romania”, “Development of a combined DC/RF plasma source for restoration of archaeological objects”*, (1997-1998)
- *PENED 1995, “Plasma processing of excavated objects made of Fe and Cu alloys and evaluation of their corrosion state before and after their treatment”*, (1996-1998)
- *NATO, Science for Stability Program, “Development of Plasma Device for the Restoration and Conservation of Archaeological Metallic and Non-Metallic Artifacts by Plasma Chemistry Methods”*, (1993-1998)

## TRAINING SEMINARS

07/05/2012-11/05/2012	“Introduction to the archaeometallurgy of Cyprus”, A NARNIA Project Training Course, University of Cyprus, Archaeological Research Unit.
10/1993 - 01/1994	“Restoration and Conservation of Antiquities and Works of Art” TEI of Athens, Department of Conservation of Antiquities and Works of Art”.
10/1991 - 01/1992	“Geographical Information System and Digitally Cartography”, ELKEPA, Institute of Informatics (300 hours)

## LABORATORY EXPERIENCE

- X-ray Diffraction (XRD). Institute of Materials Science, NCSR “Demokritos”.
- X-ray Fluorescence (XRF) and quantitative analysis. Institute of Materials Science, NCSR “Demokritos”.
- Scanning Electron Microscope (SEM) and Energy Dispersive Spectrometry (EDS). Institute of Materials Science, NCSR “Demokritos”.
- Optical Microscope, Metallographic Microscope. Institute of Materials Science, NCSR “Demokritos”.

## PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Tsakalos, E., Efstratiou, N., Bassiakos, Y., Kazantzaki, M., **Filippaki, E.**, 2021. Early Cypriot prehistory: on the traces of the last hunters and gatherers in the island-preliminary results of luminescence dating. *Current anthropology*, 62 (4), 412-425. <https://doi.org/10.1086/716100>
2. Tsakalos, E., Lin, A., Kazantzaki, M., Bassiakos, Y., Nishiwaki, T., **Filippaki, E.**, 2020. Absolute dating of past seismic events using the OSL technique on fault gouge material-A case study of the Nojima Fault Zone, SW Japan. *Journal of Geophysical Research: Solid Earth*, 125, e2019JB019257. <https://doi.org/10.1029/2019JB019257>

3. Mastrotheodoros G. P., Theodosios M., **Filippaki E.**, Beltsios K. G., 2020, "By the hand of Angelos? Analytical investigation of a remarkable 15th century Cretan icon", *Heritage*, 4(3), 1360-1372, doi: 10.3390/heritage3040075
4. Kazantzaki M., Tsakalos E., Rondoyanni Th., Bassiakos Y., **Filippaki E.**, 2019. Middle Pleistocene Luminescence Ages on Coastal Sediments from North Evoikos Gulf: Overcoming Quartz Saturation by Elevated-temperature Infrared Stimulated Luminescence (IRSL) from Feldspars. *Bulletin of the Geological Society of Greece, Special Publication*, 7, 96-97
5. Tsakalos E., Lin A., Kazantzaki M., Bassiakos Y., **Filippaki E.**, Nishiwaki, T., 2019. Absolute Dating of Neotectonic Events: A Feasibility Study on Fault Gouge from the Nojima and Asano Faults, NW Awaji Island, Japan. *Bulletin of the Geological Society of Greece, Special Publication*, 7, 171-172
6. Tsakalos E., Kazantzaki M., Bassiakos Y., **Filippaki E.**, 2019. High Resolution Stratigraphy and Evolution of Sperchios Delta Plain-Greece Based on Optical Dating of Quartz and Feldspar. *Bulletin of the Geological Society of Greece, Special Publication*, 7, 94-95
7. Mastrotheodoros G. P., **Filippaki E.**, Bassiakos Y., Beltsios K. G., Papadopoulou V., 2019, "Probing the birthplace of the "Epirus School" of painting: analytical investigation of the Filanthropinon monastery murals. Part I: pigments", *Archaeological and Anthropological Sciences*, 11(6), 2821-2836, doi: 10.1007/s12520-018-0732-5
8. Mastrotheodoros G. P., Anagnostopoulos D. F., **Filippaki E.**, Beltsios K. G., Bassiakos Y., 2019, "Probing the birthplace of the "Epirus/NW Greece School" of painting: analytical investigation of the Filanthropinon monastery murals. Part II: non-pigment materials and painting technique", *Archaeological and Anthropological Sciences*, 11(10), 5781-5798, doi: 10.1007/s12520-019-00905-5
9. Togia N., Vasilopoulou T., **Filippaki E.**, Savva M.I., Georgolopoulou P., Mertziemakis T.J., Bassiakos Y., Stamatelatos I.E., 2019, Improved calibration for non destructive determination of manganese in metallurgical tap smelting slag using a high energy medical accelerator, *HNPS Advances in Nuclear Physics*, 26, 246-249
10. Tsakalos, E., Kazantzaki, M., Lin, A., Bassiakos, Y., **Filippaki E.**, Takafumi, N., 2018. Seismic Moment and Recurrence: Microstructural and mineralogical characterization of rocks in carbonate fault zones and their potential for luminescence and ESR dating. *Journal of Structural Geology*, 117, 186-202
11. Tsakalos, E., Dimitriou, E., Kazantzaki, M., Anagnostou Ch., Christodoulakis J., **Filippaki E.**, 2018. Testing optically stimulated luminescence dating on sand-sized quartz of deltaic deposits from Sperchios delta plain, Greece. *Journal of Palaeogeography*, 7, 130-145
12. Tsakalos, E., Athanassas, C., Tsiapas, P., Triantaphyllou, M., Geraga, M., Papatheodorou, G., **Filippaki E.**, Christodoulakis, J., Kazantzaki, M., 2016. Luminescence geochronology and paleoenvironmental implications of coastal deposits of southeast Cyprus. *Journal of Archaeological and Anthropological Sciences*, 10 (1), 41-60
13. Sanidas G. M., Bassiakos Y., Georgakopoulou M., **Filippaki E.**, Jagou B., Nerantzis N., 2016, Polykmetos sideros: à propos du fer en Grèce antique. *Archeosciences, revue d'Archéométrie*, 279-301
14. Stamatelatos, I. E., Vasilopoulou, T., **Filippaki E.**, Georgopoulou P., Ntalla E. and Bassiakos Y., 2016. Photon activation analysis of large metallurgical slag samples using a 23MV medical linear accelerator. *Journal of Radioanalytical and Nuclear Chemistry*, 309, 165-171
15. Xaplanteris C.L., **Filippaki E.D.**, Christodoulakis J.K., Kazantzaki M.A., Tsakalos E.P. and Xaplanteris L.C., 2015. Cold Atmospheric Plasma Activity on Micro-organisms. A Study on the Influence of the Treatment Time and Surface. *Journal of Plasma Physics*, Vol 81, 905810401
16. Papadopoulou O., Novacovic J., Vassiliou P., **Filippaki E.** and Bassiakos Y., 2013, Chemical corrosion by chlorides on ancient-like bronzes and treatment by hydrogen glow discharge plasma, *Applied Physics A, Materials Science and Processing Volume 113, Issue 4*, 981-988

17. Xaplanteris C.L. and **Filippaki E.D.**, 2013, Influence on plasma cleaning rate, by using an external dc electric current. An application on the enlarged plasma-surface theory, Plasma Science and Technology, vol. 15 (5), 448-454
18. Xaplanteris C.L., **Filippaki E.D.** and Xaplanteris L.C., 2013, Generalisation of the perturbation theory by using a repeating equation. A case which reveals the plasma chaotic state, Journal of Plasma Physics, vol. 79 (2), 221-231
19. Xaplanteris C.L., **Filippaki E.D.**, Mistakidis I. S., Xaplanteris L.C., 2013, Utilisation of the Perturbation Theory without Presuppositions. A Repeating Equation for Azimuthal Velocities into Cylindrical and Magnetized Plasma Chaotic Modeling and Simulation International Journal, 1: 117-131
20. Xaplanteris C.L., **Filippaki E.**, Mistakidis I.S., 2012, Collision Frequency leads the Plasma into a Chaotic State. Influence on the Conductivity"Chaotic Modeling and Simulation International Journal, 1: 157-168
21. Xaplanteris C.L., **Filippaki E.D.**, Mistakidis, I.S. and Xaplanteris, L.C., 2012, Electron drift caused by rf field gradient creates many plasma phenomena. An attempt to distinguish the cause and the effect, Journal of Plasma Physics, vol. 78, (2), 165-174,
22. Xaplanteris C.L. and **Filippaki E.** Nonlinear wave phenomena into plasma. Some cases of stabilization and control of chaotic states, 2011, Journal of Plasma Physics, vol 77, (5), 679-692
23. Novacovic J., Papadopoulou O., Vassiliou P., **Filippaki E.** and Bassiakos Y., 2009, Plasma Reduction of Bronze Corrosion Developed Under long-Term Artificial Ageing, Analytical and Bioanalytical Chemistry, vol 395, n° 7, 2235-2244,
24. Kotzamanidi E., Vassiliou P., Sarris Em., Anastasiades A., Filippakis S.E., **Filippaki E.**, 2002, Effects of plasma treatment on the corrosion layer of corroded steel- XRD evaluation, Anticorrosion Methods and Materials, vol49, n° 4, 256-263
25. Paleos C.M., Tsiourvas D., Filippakis S. and **Filippaki L.** 1994, Mesomorphic character of some long-chain 2,4,6-Trichloro-1,3,5-Triazine derivatives susceptible to facile functionalization, Mol. Cryst. Liq. Cryst., 242, 9-15

## PUBLICATIONS IN PROCEEDINGS

1. Bode M., Kiderlen M., Mastrotheodoros G.P., **Filippaki E.**, Bassiakos Y., 2020, "Das Kupfer der griechischen spätgeometrischen Dreifußkessel (ca. 750–700 v. Chr.): eine Diskussion der chemischen und bleiisotopischen Analysen", H. G. Yalçın & Stegemeier O. Metallurgica Anatolica, Bochum
2. Μαστροθεόδωρος Γ., **Φιλίππáκη E.**, Μπασιάκος Γ., 2019, Αναλύσεις μετάλλινων αντικειμένων, στο Μελέτη προϊστορικών Τύμβων Βρανά Μαραθώνος, Πρακτικά της εν Αθήναις Αρχαιολογικής Εταιρείας του έτους 2017, Αθήνα 2019, 47-48
3. Tselios C., **Filippaki E.**, Korres G.S., 2016, Selective use of arsenic copper during the Mycenaean period: the evidence from Pylia (Messenia-Greece), Proceedings of the 6<sup>th</sup> Symposium of the Hellenic Society for Archaeometry, BAR International series, pp.81-88
4. **Filippaki E.** and Bassiakos Y. (**invited paper**), 2014, Metal working at Priniatikos Pyrgos, Mirabello Gulf, Crete. A Cretan Landscape through Time: Priniatikos Pyrgos and Environs, BAR International series, pp.105-112
5. Kiderlen M., Bassiakos Y. and **Filippaki, E.**, 2014, Preliminary results of mineralogical analysis of Ermione ores. Proceedings of the Meeting on Metallurgy and Metallurgical installations in Peloponnese, Greece. Archaeological Institute of Peloponnesian Studies, pp.85-95.
6. Xaplanteris C.L., **Filippaki E.D.**, Mistakidis I.S. and Xaplanteris L.C. 2012 A Repeating Relation for Electron Velocities in Argon Plasma. An attempt to extend the Perturbation Theory. Proceedings, 5th Chaotic Modeling and Simulation International Conference, 12-15 June, Athens, Greece, pp. 613-623.

4. **Filippaki E.** and Xaplanteris C. Study on iron corroded samples after their treatment using plasma chemistry methods with the additional application of a d.c. electrical potential, Proceedings of the 5<sup>th</sup> Symposium of Hellenic Society for Archaeometry, Athens 2012, pp.1025-1046
5. **Filippaki E.**, Ahmed S.S, Bassiakos Y., Batis G., Argyropoulos V. Preliminary results of the application of plasma chemistry methods on marine iron objects, Proceedings of 5<sup>th</sup> Symposium of Hellenic Society for Archaeometry, Athens 2012, pp.1047-1059
6. Xaplanteris, C.L., **Filippaki, E.** and Mistakidis, I.S. Collision Frequency leads the Plasma in a Chaotic State. Influence on the Conductivity Proceedings, 4th Chaotic Modeling and Simulation International Conference, 31 May – 3 June 2011, Agios Nikolaos, Crete Greece, pp: 635-642
7. Novakovic J., Papadopoulou O., Delagrammatikas M., Vassiliou P., **Filippaki E.**, Xaplanteris C. and Bassiakos Y., 2010, Accelerated soil corrosion on ancient-like bronzes and hydrogen plasma reduction of developed corrosion products, The 29<sup>th</sup> Annual Conference "International Conference on Corrosion Mitigation and Surface Protection Technologies", 14-16 December Alexandria, Egypt
8. Papadopoulou O., Novakovic J., Delagrammatikas M., Vassiliou P., **Filippaki E.**, Xaplanteris C. and Bassiakos Y., 2010, Hydrogen Glow Discharge Plasma Treatment of Artificial "Bronze Disease" on Copper Alloys, Works of Art and Conservation Science Today, November 26-28 2010, Thessaloniki Greece.
9. Xaplanteris C.L. and **Filippaki E.**, 2011, Drift waves' synchronization by using an external signal. The stabilization of a chaotic plasma turbulence. CHAOS THEORY: Modeling, Simulation and Applications, C. H. Skiadas, I. Dimotikalis, and C. Skiadas (Eds), World Scientific Publishing Co. Selected papers from the 3<sup>rd</sup> Chaotic Modeling and Simulation International Conference (CHAOS 2010), 431-438
10. Xaplanteris C. and **Filippaki E.**, 2010, Chaotic behavior of plasma surface interaction. A table of plasma treatment parameters useful to the restoration of metallic archaeological objects, CHAOTIC SYSTEMS, Theory and Applications, Selected Papers from the 2nd Chaotic Modeling and Simulation International Conference (CHAOS2009), pp. 377-386
11. Xaplanteris C.L. and **Filippaki E.**, 2009, Plasma-surfaces interaction and improvement of plasma conservation system by application of a d.c. electrical potential. In "Topics on Chaotic Systems, Selected Papers from CHAOS 2008 International Conference", pp. 406-415.
12. Kotzamanidi E., Sarris E., **Filippaki E.**, Sakarikou G., Filippakis S., Kollia K. and Vassiliou P., 2001, Restoration and conservation of objects made of iron and copper alloys by using radiofrequency glow discharge plasma, Archaeometry Issues in Greek Prehistory and Antiquity, Ed. Y. Bassiakos, E. Aloupi, Y. Fakorellis, 459-467
13. Kotzamanidi E., **Filippaki E.**, Filippakis S. and Anastasiadis A., 1999, X-ray diffraction on iron corroded samples and excavated objects made of iron during their treatment by glow discharge plasma", Proceedings of the 7<sup>th</sup> Panhellenic Conference in Physics and 6<sup>th</sup> Congress of Greek and Cypriot Physicists, 4-7 April 1996, Heraklion Crete, 1, 116-120
14. **Filippaki E.**, Kotzamanidi E. and Filippakis S., 1999, Restoration and conservation of archaeological metallic artifacts by plasma chemistry methods Proceedings of the 7<sup>th</sup> Panhellenic Conference in Physics and 6<sup>th</sup> Congress of Greek and Cypriot Physicists, 4-7 April 1996, Heraklion Crete, 1
15. Kotzamanidi E., Valiadis P. **Filippaki E.**, Kollia K. and Vassiliou P., 1996, Corrosion behaviour of iron objects after their treatment using plasma chemistry methods, Proceedings of 17<sup>th</sup> Panhellenic Conference of Chemistry, Patra, 691-694

#### PRESENTATIONS IN CONFERENCE

1. Tsakalos E., Bassiakos Y., Yiannouli E., Kazantzaki M., **Filippaki E.**, 2018. Late Quaternary Palaeoenvironmental Evolution of the Coastal Zone of SE Kephallenia Island-Greece: a Preliminary Account Based on Luminescence Dating Techniques. The 42nd International Symposium on Archaeometry (ISA 2018), May 20-26, 2018, Mérida, Yucatán, Mexico

2. Tsakalos E., Efstratiou N., Bassiakos Y., Kazantzaki M., **Filippaki E.**, 2018. Early Cypriot Prehistory: On the Traces of the Last Hunters and Gatherers in the Island-Preliminary Results of Luminescence Dating. The 42nd International Symposium on Archaeometry (ISA 2018), May 20-26, 2018, Mérida, Yucatán, Mexico
3. Kazantzaki M., **Filippaki E.**, Bassiakos Y., Tsakalos E., Christodoulakis, J., 2018. Late Pleistocene-Holocene Environmental Changes on Kalamas Delta Plain- NW Greece. The 42nd International Symposium on Archaeometry (ISA 2018), May 20-26, 2018, Mérida, Yucatán, Mexico
4. Kazantzaki M., Tsakalos E., Bassiakos Y., **Filippaki E.**, 2018. The Potential of Thermoluminescence Techniques in Dating Fault Slickenside Formations. Asia Oceania Geosciences Society (AOGS), 15th Annual Meeting 03 to 08 JUN, 2018. Honolulu, Hawaii
5. Tsakalos E., Lin A., Bassiakos Y., Kazantzaki M., **Filippaki E.**, 2018. Absolute Dating of Fault Gouge Using Luminescence Dating Techniques- The Borehole Survey of the Nojima Fault, Southwest Japan. Asia Oceania Geosciences Society (AOGS), 15th Annual Meeting 03 to 08 JUN, 2018. Honolulu, Hawaii
6. Tsakalos E., Lin A., Bassiakos Y., Kazantzaki M., **Filippaki E.**, Takafumi N., 2017. Seismic Moment and Recurrence using Luminescence Dating Techniques: Characterizing brittle fault zone materials suitable for luminescence dating. American Geoscience Association (AGU) fall meeting 2017, 11-15 December 2017, book of abstracts, New Orleans, USA
7. Kazantzaki M., **Filippaki E.**, Vaiopoulou M., Tsakalos E., Mastrotheodoros G. and Christodoulakis J., 2016. "Luminescence dating of sediments collected from the archaeological site of Petroto Trikala", 41<sup>st</sup> International Symposium on Archaeometry, ISA 2016, May 15-21, Kalamata, Greece.
8. Philippaki E., Rongeucke M., Mourelatos D., Tsakalos E., Kazantzaki, M., Mastrotheodoros G.P., Xaplanteris C., Kokourou-Alevras G., Kalopisi-Verti S. and Panayotidi-Kesisoglou M., 2016. Conservation of historical iron corroded objects using plasma surface cleaning and chemical methods: A multi-analytical evaluation. 41<sup>st</sup> International Symposium on Archaeometry, ISA 2016, May 15-21, Kalamata, Greece
9. Bassiakos Y., **Filippaki E.** Wagner G.A., Papadopoulou Z. and Georgakopoulou M., 2015. Ancient gold and silver mines in Sifnos: new data, International Conference "Mines, Metals and Money in Attica & the Ancient World", Epigraphic and Numismatic Museum, Athens, 20-22 April 2015
10. Nerantzis, N., Bassiakos, Y., Georgakopoulou, M., **Filippaki, E.** and Mastrotheodoros, G., 2015. Copper Production in EBA Thassos: new finds, experimental simulations and links with the southern Aegean contemporaneous metallurgical practices, Archaeometallurgy in Europe IV, 1-3 June 2015, Madrid
11. Bassiakos Y., Mastrotheodoros G. and **Filippaki E.**, 2014. Aspects on the introduction of tin in the Aegean during the 2<sup>nd</sup> millennium BC. 40<sup>th</sup> International Symposium on Archaeometry, ISA 2014, May 19-23, Los Angeles, California
12. Tselios C., **Filippaki E.** and Korres G.S., 2013. Selective use of arsenic copper during the Mycenaean period: Analytical investigation of a battle –knife (Schlashtmesser) of Cu-As-Ag alloy, from Metaxada and of a bronze razor plated with Cu-As alloy sheet, from the cemetery of Volimidia, in Pylia (Messenia-Greece), 6<sup>th</sup> Symposium of the Hellenic Society for Archaeometry, "Craft-based Cultural Influences in the Mediterranean", May 16-18, 2013, Athens Acropolis Museum
13. **Filippaki E.**, Kotzamanidi I., Bassiakos Y. and Xaplanteris C.L., 2013. The fingerprint of the plasmachemical restoration of iron corroded artifacts through the optical emission spectroscopy, 6<sup>th</sup> Symposium of the Hellenic Society for Archaeometry, "Craft-based Cultural Influences in the Mediterranean", May 16-18, 2013, Athens Acropolis Museum
14. Tselios C., **Filippaki E.**, Bassiakos Y. and Korres G., 2011. Silver Plated Mycenaean Bronze Artifacts - Burial Offerings from the Tholos and Chamber Tombs at the Region of Pylos in

Peloponnese, 3<sup>rd</sup> International Conference Archaeometallurgy in Europe 2011, 29-1 July 2011, Deutsches Bergbau-Museum Bochum, Germany

15. **Filippaki E.**, Bassiakos Y. and Hayden B., 2011. Archaeo-metallurgical studies on iron production from the site of Priniatikos Pyrgos, Mirabello Gulf, Northeastern Crete", 3<sup>rd</sup> International Conference Archaeometallurgy in Europe 2011, 29-1 July 2011, Deutsches Bergbau-Museum Bochum, Germany
16. **Filippaki E.**, 2010. A prespective development of plasma chemistry methods on the conservation of archaeological artifacts" 2<sup>nd</sup> Symposium "Archaeological Research and New Technologies", Kalamata Greece, October 21-23, 2010
17. Novakovic, J., Papadopoulou, O., Delagrammatikas, M., Vassiliou, P., **Filippaki E.**, Xaplanteris, C. and Bassiakos, Y., 2010. Plasma reduction of accelerated soil corrosion on ancient-like bronzes". 8th International Symposium on the Conservation of Monuments in the Mediterranean Basin. Monument Damage Hazards & Rehabilitation Technologies", 31 May-2 June 2010, Patras, Greece
18. Xaplanteris C.L. and **Filippaki E.**, 2010. Drift waves' synchronization by using an external signal. The stabilization of chaotic plasma turbulence". CHAOS 2010 International Conference, 1-4 June 2010, Chania, Crete
19. Ahmed S., **Filippaki E.**, Bassiakos Y., Batis G. and Argyropoulos V., 2009. The hydrogen plasma treatment of corroded iron artefacts from a waterlogged environment, 12th International Symposium on Boat and Ship Archaeology, 12-16 October 2009, Istanbul
20. **Filippaki E.**, Kotzamanidi I. and Xaplanteris C.L., 2009. Optical Emission Spetroscopy in a Glow Discharge Plasma During the Restoration of Iron Corroded Objects, XXV Panhellenic Conference on Solid State Physics and Materials Science, 20-23 September 2009, Thessaloniki
21. Saleh S.A., **Filippaki E.**, Xaplanteris C.L. and Bassiakos Y., 2009. Effect of the Hydrogen-Reductive Plasma on Underwater Oxidized Objects. Chaotic Plasma Configuration, XXV Panhellenic Conference on Solid State Physics and Materials Science, 20-23 September 2009, Thessaloniki
22. Novacovic J., Papadopoulou O., Vassiliou P., **Filippaki E.** and Bassiakos Y., 2009. Plasma Reduction of Bronze Corrosion Developed Under long-Term Artificial Ageing, Technart 2009, Non-destructive and Microanalytical Techniques in Art and Cultural Heritage, Athens, 27-30 April 2009

#### OTHER PUBLICATIONS

1. Zacharias N., **Filippaki E.**, Oikonomou A. and Bassiakos Y., 2008. Analysis and authenticity investigation of glass and metallic art objects, IAEA Report on applications of nuclear techniques to investigate the authenticity of Art objects, Cusco, Peru, 82-93
2. Kotzamanidi I., **Filippaki E.** and Filippakis S., 1999. Restoration and conservation of archaeological metallic artifacts using hydrogen plasma treatment, Newsletter of the International Institute of Conservation Hellenic, 4, 4-7
3. **Filippaki E.**, Kotzamanidi I., Anastasiadis A., Gogolidis E. and Filippakis S., 1998. Conservation and restoration by plasma chemistry methods", Technologia-Newsletter of ETVA, 8, 33-34

#### BOOKS

Bassiakos Y., Apostolaki C., Perdikatsis V., Philippaki E., and Sotiropoulou S., 2021. Technological Observations Based on the Analyses of Metal and Steatite Finds from the Early Minoan IB Cemetery Gournes, Pediada A Minoan Cemetery in Crete, Instap, Academic Press Philadelphia, Pennsylvania

Proceedings of the 6<sup>th</sup> Symposium of the Hellenic Society for Archaeometry, Museum of Acropolis, Athens, 16-18 May 2013. E. Photos Jones, Y. Bassiakos, **E. Philippaki**, A. Hein, I. Karatasios, V. Kylikoglou and E. Kouloumpi (eds.), BAR International Series 2789, 2016.

## INVITED SPEAKER

Y. Bassiakos, **E. Filippaki**

*The delay of metal production in Greece during the 2<sup>nd</sup> millennium B.C .A geoarchaeological approach.*

A meeting for the contribution of the science to the study of the past, Crisis – Continuation– Discontinuation of the Hellenic Cultural Evolution, Archaeological Museum of Karditsa, 29/09/2012, Karditsa

Y. Bassiakos, **E. Filippaki**

*Metalworking at Priniatikos Pyrgos, Mirabell Gulf, Crete*

Fieldwork and Research at Priniatikos Pyrgos and Environs, 1912 – 2012, British School at Athens 1-2 June, 2012, Athens

Y. Bassiakos, **E. Filippaki**

*Analysis and authenticity investigations of iron and bronze Art objects by using microscopic and RF plasma techniques*

IAEA-organised Final Research Coordination Meeting on “Applications of Nuclear Techniques to Investigate the Authenticity of Art Objects”, Cusco, 3-7 November, 2008, Peru

**E. Filippaki**

*Conservation of metallic objects using plasma chemistry methods.*

Seminar of International Atomic Energy Agency in the frame of RER/1/006 “Nuclear Techniques for the Protection of Cultural Heritage Artefacts in the Mediterranean Region” entitled “The use of nuclear techniques to the protection of the cultural”, 20-22 October, 2008, Athens.

## CONFERENCE ORGANIZATION

Co-organization of the 6th Symposium of the Hellenic Society for Archaeometry, “*Archaeology Archaeometry: 30 years later*”, October 9-12 2019, Byzantine and Christian Museum, Athens

Co-organization of the 6<sup>th</sup> Symposium of the Hellenic Society for Archaeometry, “*Craft-based Cultural Influences in the Mediterranean*”, May 16-18, 2013, Athens Acropolis Museum

Co-organization of the meeting for “*The contribution of the science to the study of the past, Crisis – Continuation– Discontinuation of the Hellenic Cultural Evolution*”, Archaeological Museum of Karditsa, 29/09/2012, Karditsa

Co-organization of the International Symposium “*History, Technology and Conservation of Ancient Metal, Glasses and Enamels*”, November 16-19, 2011, Athens, Greece

## TEACHING EXPERIENCE

**E. Filippaki**

*XRD spectroscopy and analysis as a dating means*

NCSR “Demokritos”, (21-25/11/11). Training course entitled “Luminescence and other dating techniques” in the frame of the approved European research project NARNIA (New Archaeological Research Network for Integrating Approaches to ancient material studies, Marie Curie FP7-PEOPLE-ITN 2010-20).

**E. Filippaki**

*Corrosion of metallic archaeological objects and their conservation using plasma chemistry methods*

NCSR “Demokritos”, Summer School 2011 (4-15/7).

**E. Filippaki**

*Conservation of historical and archaeological metallic artifacts by plasma chemistry methods* NCSR “Demokritos”, Summer School 2009 (6-17/7).

**E. Filippaki**

*The new plasma techniques for the study and conservation of archaeological objects from marine environment*

NCSR “Demokritos”, Summer School 2008 (7-18/7).

## ACADEMIC ASSOCIATIONS

2012-today Secretary of the Board of HSA (Hellenic Society for Archaeometry)