



6th ARCH_RNT
Archaeological Research
& New Technologies

8-9 OCTOBER 2020, KALAMATA

SYMPOSIUM PROGRAMME

Thursday, October 8	
15:00 - 15:45	Registration
15:45 - 16:00	Welcoming Remarks and Opening Ceremony
16:00 - 17:40	SESSION 1
16:00 - 16:20	(O-1) Cosmos. Cultural Osmosis - mythology & art. Cultural heritage data correlations with AI (<u>S.C.A. Thomopoulos</u> , P. Tsimpiridis, I. Theodorou, C. Maroglou, S. Georgiou and C. Christopoulou)
16:20 - 16:40	(O-2) The pre-emerging technologies of byzantine monumental art (<u>K. Karoussos</u>)
16:40 - 17:00	(O-3) Digital Mapping and 3D Geovisualization in Cultural Heritage. The Ancient Pylos case study (<u>G. Malaperdas</u> and N. Zacharias)
17:00 - 17:20	(O-4) The Byzantine city of Mystras: The Monastery of Pantanassa (<u>V. Panagiotidis</u> , V. Valantou and N. Zacharias)
17:20 - 17:40	(O-5) Integrated scientific approach for the diagnosis and restoration of the catholicon and cell quarters of the Varnakova Monastery in Fokida (V. Keramidas, E.T. Delegou, M. Apostolopoulou, I. Ntoutsis, M. Thoma, C. Michalaros, C. Papatrechas, C. Mouzakis and <u>A. Moropoulou</u>)
17:40 - 18:10	Coffee Break
18:10 - 19:50	SESSION 2
18:10 - 18:30	(O-6) Combined geochemical and luminescence analysis for reconstructing the use history of agricultural terraces (<u>D. Fallu</u> , A. Brown, S. Cucchiaro, P. Tarolli, L. Snape and A. Lang)
18:30 - 18:50	(O-7) ¹⁸ O & ¹⁶ O in archaeological obsidian: Preliminary results and a case study from Delphi (<u>N. Laskaris</u> and I. Liritzis)
18:50 - 19:10	(O-8) The Hiera Eruption (197 BC) of Santorini: First evidence in speleothem archives (<u>K. Theodorakopoulou</u> , K. Kyriakopoulos and E. Galanopoulos)
19:10 - 19:30	(O-9) Old stories and new technologies in Yellow River and Aegean disaster archaeology (<u>A. Westra</u>)
19:30 - 19:50	(O-10) TA-OSL, a tool for extending the luminescence age limits beyond 1 million years; preliminary results from a number of sites (<u>G.S. Polymeris</u>)
20:00	Welcome Cocktail at the Campus of the University of the Peloponnese

Friday, October 9	
9:30 - 11:10	SESSION 3
09:30 - 09:50	(O-11) Exploring biological affinities in Bronze Age Pylos (<u>C. Papadopoulos</u> and J.D. Irish)
09:50 - 10:10	(O-12) Η επίδραση της UV ακτινοβολίας σε μεταξωτά υφάσματα βαμμένα με φυσικές βαφές (<u>A. Βασιλειάδου</u> , I. Καραπαναγιώτης και Α.-Σ. Ζώτου)
10:10 - 10:30	(O-13) Waterlogged archaeological charred wood: Implications for its condition assessment and future conservation (<u>E. Mitsi</u> and A. Pournou)
10:30 - 10:50	(O-14) Data fusion: The art of putting all data sets together (A. Karamitrou, <u>G.N. Tsokas</u> and G. Didaskalou)
10:50 - 11:10	(O-15) Image fusion of the geophysical and other data at the site bearing the ruins of ancient Europolis (<u>G. Tsokas</u> , A. Stampolidis, A. Karamitrou, G. Stratouli, K. Chavanidis, P. Tsourlos, G. Vargemezis, P. Louvaris, K. Polydoropoulos and N. Kordatos)
11:10 - 11:30	TECHNICAL SESSION “Modelling Reality”, Tree Company Corporation
11:30 - 12:00	Coffee Break
12:00 - 13:00	SESSION 4
12:00 - 12:20	(O-16) The painting materials & techniques of a post-byzantine icon: A Scanning XRF investigation (<u>A. Asvestas</u> , I. Liougos, G.P. Mastrotheodoros, A. Tzima, K.G. Beltsios and D.F. Anagnostopoulos)
12:20 - 12:40	(O-17) Preliminary results of an integrated study on a western religious canvas painting from the series of the station of the cross (<u>S. Kesidis</u> , A.G. Karydas, N. Zacharias and E. Kouloumpi)
12:40 - 13:00	(O-18) Applying SEM-Cathodoluminescence in paintings: Building a database for the characterization of organic and inorganic pigments (<u>E. Palamara</u> , P.P. Das, S. Nicolopoulos, L. Tormo Cifuentes, E. Kouloumpi and N. Zacharias)
13:00 - 14:00	CULTTECH MSc PRESENTATION
14:00 - 14:30	Lunch Break
14:30 - 15:30	POSTER SESSION
15:30 - 16:40	SESSION 5
15:30 - 15:50	(O-19) Development of multi-functional restoration mortars for safeguarding architectural monuments – The “AKEISTHAI” approach (<u>I. Karatasios</u> , M. Amenta, A. Michalopoulou, N.D. Alexopoulos, S. Papaioannou, G. Asimakopoulos, D. Gournis and V. Kilikoglou)
15:50 - 16:10	(O-20) Glass technology from the Mycenaean to the 1st millennium BC: Continuity or change? (<u>M. Kaparou</u> and A. Oikonomou)
16:10 - 16:30	(O-21) Preliminary investigation of an archaic bronze double axe from the cemetery of Paleron Delta, Attica (<u>A. Panagopoulou</u> , S. Chryssoulaki, A.G. Karydas and N. Zacharias)
16:30 - 16:50	(O-22) Η εφαρμογή της φασματοσκοπίας φθορισμού με μικροδέσμη ακτίνων X (micro-XRF) στη μελέτη των μεταλλικών τέχνηρων τεσσάρων ιερών της Τεγεάτιδας (10 ^{ος} -7 ^{ος} αιώνας π.Χ.) (<u>N.K. Κλαδούρη</u> , Α.Γ. Καρύδας, Β. Ορφανού, Β. Κανταρέλου και Ν. Ζαχαριάς)
16:50 - 17:00	Closing remarks

POSTER SESSION

P-1. The use of earth observation in addressing cultural heritage issues

(G. Vlachos and E. Gerasopoulos)

P-2. Thermoluminescence dating of limestone walls from Ithaca (School of Homer)

(A. Vafiadou, G.S. Polymeris, G. Kitis and I. Liritzis)

P-3. Technological and chronological study of mortar samples from Varnakova Monastery in Fokida

(N. Zacharias, P. Moska, K. Triantafyllopoulos, E.T. Delegou, M. Apostolopoulou, A. Karydas and A. Moropoulou)

P-4. Non-destructive analysis in paintings of the Church Agia Trida Volos

(K. Romantzi, Th. Ganetsos, D. Giakoumi and St. Mouzakiotou)

P-5. Non-destructive investigation of inks & pigments of manuscripts from Zakynthos Island, Greece

(G.P. Mastrotheodoros, M. Theodosis, K.G. Beltsios and E. Filippaki)

P-6. Varnish recipes in post-Byzantine painting manuals

(G.P. Mastrotheodoros and K.G. Beltsios)

P-7. Petrographic analysis of pottery samples from Mycenaean Thebes

(V. Valantou, N. Zacharias, V. Aravantinos and I. Fappas)

P-8. Scientific enquiry of pottery provenancing and production in Zimbabwean archaeology: A critical review

(T. Tavingeyi)

P-9. XRF Analysis of 16 Messenean coins: An archaeometric approach of the Messenean Hellenistic and Roman bronze alloy

(A. Kampa, E. Palamara and N. Zacharias)

(P-10) EDXRF analysis of Rare Earth Elements in archaeological ceramics: Development and validation of the method

(A.P. Panagopoulou, K. Tsampa, St. Papagiannis, K. Eleftheriadis, A. Hein and A. Karydas)