



5th ARCH_RNT

Archaeological Research & New Technologies



4-5 OCTOBER 2018, KALAMATA

Organized By:



Ελληνική Δημοκρατία
Περιφέρεια Πελοποννήσου



Laboratory
Archaeometry



Δήμος Καλαμάτας

Sponsor



SYMPOSIUM PROGRAMME

Thursday, October 4

18:00 - 18:45	Registration
18:45 - 19:00	Welcoming Remarks and Opening Ceremony
19:00 - 21:00	SESSION 1
19:00 - 19:30	KEYNOTE. (O-1) New insights into the production technology of Chinese blue by TEM/STEM (<u>G. Patriarche</u> , Y. Lin, X. Huang, P. Walter and I. Kakoulli)
19:30 - 20:00	KEYNOTE. (O-2) Analytical Electron Microscopy of nanoparticles in Hidalgo/Pachuca obsidian (<u>N.J. Zaluzec</u> , S. Nicolopoulos and J. Arenas-Alatorre)
20:00 - 20:20	(O-3) Cathodoluminescence on archaeological samples and provenance analysis (<u>S. Nicolopoulos</u> , P.P. Das, N. Zacharias, A. Oikonomou and E. Palamara)
20:20 - 20:40	(O-4) Preliminary Electron Microprobe results on new excavated ceramic fabric from Kastrouli Late Helladic site (<u>I. Baziotis</u> , S. Xydous, S. Manimanaki and <u>I. Liritzis</u>)
21:00	Welcome Cocktail at the Campus of the University of the Peloponnese

Friday, October 5

09:30 - 10:50	SESSION 2
09:30 - 09:50	(O-5) X-Ray Diffraction, SEM/EDX and FTIR investigation of red coloured fragments of wall paintings from the Victory Monument of Augustus in Nicopolis, Greece (<u>Y. Facorellis</u> , E. Tziamourani, S. Boyatzis, E. Nesserli, K.L. Zachos and M. Karampa)
09:50 - 10:10	(O-6) The use of Scanning Electron Microscopy in samples from Dionysius of Fourna panel paintings. Observations and Results (<u>T. Mafredas</u> , G. Karatasios, S. Boyatzis and E. Kouloumpi)
10:10 - 10:30	(O-7) Yet another Angelos' painting? An analytical investigation of a 15th century Cretan icon (<u>G. Mastrotheodoros</u> , M. Theodosios and K.G. Beltsios)
10:30 - 10:50	(O-8) The Mosaic Room of the Roman Baths in Derveni, Corinthia: Use of SEM-EDS for materials characterisation and understanding of its renovation stages (<u>E. Kyriazi</u> , N. Zacharias, D. Sarri, E. Georgiou and E. Koumpoula)
10:50 - 11:20	Coffee Break

11:20 - 13:00	SESSION 3
11:20 - 11:40	(O-9) Cleaning of paintings using highly viscous polymeric dispersions PVA-BORAX and Optical Coherence Tomography (<u>D. Lazidou</u> , I. Teknetzi, I. Karapanagiotis and C. Panayiotou)
11:40 - 12:00	(O-10) Salt crystallization damage at repair interfaces in Malecon in Havana, Cuba (<u>A.M. Aguilar Sanchez</u> , F. Caruso, F. Girardet, F. Martirena, T. Wangler and R.J. Flatt)
12:00 - 12:20	(O-11) Evaluation of the morphological characteristics of different consolidation nanomaterials for cultural heritage conservation (<u>A. Michalopoulou</u> , A. Bonazza, V. Kilikoglou and I. Karatasios)
12:20 - 12:40	(O-12) Identification of tinning of ancient low tin bronzes using SEM-Imaging (<u>P. Manti</u> and D. Watkinson)
12:40 - 13:00	(O-13) Distinguish between ancient and modern leaded tin-bronzes based on the composition of their lead inclusions (S. Shilstein, A. Berner, Y. Feldman, Y. Rosenberg and <u>S. Shalev</u>)
13:00 - 14:00	Lunch Break
14:00 - 15:30	POSTER SESSION
15:30 - 17:10	SESSION 4
15:30 - 15:50	(O-14) The history and statistics of Electron Microscopy Studies of archaeological and Cultural Heritage materials (G. Malaperdas, <u>V. Panagiotidis</u> , V. Valantou and N. Zacharias)
15:50 - 16:10	(O-15) Characterisation of the ceramic technology of a late Helladic ceramic assemblage from Kastrouli Settlement, Delphi (Central Greece) by means of Scanning Electron Microscopy (<u>V. Xanthopoulou</u> , I. Iliopoulos and I. Liritzis)
16:10 - 16:30	(O-16) Study of materials and production of amphorae with SEM/EDX and XRD from the Scene Building of the Roman Theatre of Milos (<u>R. Papadopoulos</u> and Y. Facorellis)
16:30 - 16:50	(O-17) A textural characterisation study of Roman - late Roman wares from the surface survey in Sphakia area, Crete (<u>A.-M. Pollatou</u> , E. Nodarou and I. Iliopoulos)
16:50 - 17:10	(O-18) Analytical and Technological Study of Bishop Iosif's Androusis Mitre (<u>M. Koutsodimitropoulou</u> and A. Karatzani)
17:10 - 17:40	Coffee Break
17:40 - 19:00	SESSION 5
17:40 - 18:00	(O-19) Identifying oxide staining in "black bones" from archaeological and palaeontological contexts through SEM-EDS: The case study of Dispilio, Greece (<u>E. Stathopoulou</u> , E. Margariti and M. Mallouchou)
18:00 - 18:20	(O-20) Use of SEM/EDS for the characterisation of Upper Miocene fossilized bone from Kerasia, Euboea (<u>M. Mousi</u> , E. Kyriazi and N. Zacharias)
18:20 - 18:40	(O-21) Application of SEM-EDS analysis in the study of leather samples (<u>N. Macro</u> , M. Ioele and L. Arrizza)
18:40 - 19:00	(O-22) OM and SEM/EDS on hairs of an Egyptian child mummy from the Anthropological Museum of Athens. Interpretation of results and preventive conservation suggestions (<u>A. Karamanou</u> , E. Kyriazi, A. Velegraki, Y. Facorellis, M. Koloukosa and D. Moissidou)

POSTER SESSION

- P-1. Bronze pins and metallurgical material from the Sanctuary of Athena Alea at Tegea, Arcadia, Greece, 9th-7th c. BC: A technological study (N.K. Kladouri, V. Orfanou and N. Zacharias)
- P-2. Analysis of metal threads by means of SEM/EDS on ecclesiastical textiles: The Epitrichelia of St. Dionysios, Zakynthos (Ch. Karydis and A. Oikonomou)
- P-3. A SEM-EDX/OM study of the 19th century S. Chrysanthopoulos' Naive wall paintings (Pyrgos Village, Euboea, Greece) (A. Oikonomou, G. Mastrotheodoros, V. Panagopoulou and N. Salamouris)
- P-4. The SEM/EDX and XRF non-destructive analysis of thirty Neolithic beads from the Sarakenos Cave, Boeotia (K. Davri, Y. Facorellis, G. Mastrotheodoros and A. Sampson)
- P-5. SEM analysis of late Classical and Hellenistic black glazed pottery from ancient Messene, Greece (E. Triantafyllidi, E. Palamara, E. Zimi and N. Zacharias)
- P-6. A physicochemical study of Medieval and early Modern glazed pottery from Corinth, Greece by SEM/EDS (E. Palamara and N. Zacharias)
- P-7. Generation of UV-induced radiation defects in calcite (Z. Kabacinska, R. Krzyminiwski, K. Tadyszak and E. Coy)
- P-8. Marine geophysical survey in a significant archaeological site: Vathi Bay, Astypalea Island, Aegean Sea (A. Noti, N. Georgiou, X. Dimas, D. Christodoulou, M. Geraga, A. Vlachopoulos, G. Papatheodorou)
- P-9. The study of microbial activity in fossil bone through Scanning Electron Microscopy: Examples from Greece & Cyprus (E. Stathopoulou, E. Margariti and M. Mallouchou)