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ABSTRACT BOOK

29TH EAA ANNUAL MEETING

30TH AUGUST - 2ND SEPTEMBER 2023



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An Roinn Tithíochta,
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29th EAA Annual Meeting (Belfast, Northern Ireland 2023) - Abstract Book

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ABSTRACT BOOK

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and exchange networks, thus re-evaluating the weight of the Phoenician presence throughout the Early Iron Age societies and the narratives created around the identity development of each community.

17 THE PRODUCTION OF HAND-MADE CERAMICS IN THE VAR REGION : PETROGRAPHY OF THE RAW MATERIALS AND SCALES OF SOURCING

Abstract author(s): Delabre, Margot (Laboratoire ASM - UMR 5140 - UPVM3)

Abstract format: Oral

Hand-made ceramics represent the major part of Gallic ceramic production until the end of the Iron Age. The rare production sites discovered in Provence, as well as the variability of the forms and technical aspects of this pottery, point to a domestic fabric of local character. A few specific productions have been identified and seem to come from a factory, but these are only a minority of the vases found. Suffering from a permanent confrontation with imported Mediterranean ceramics present in most of the sites of southern Gaul since the 6th century B.C., the hand-made ceramics have been little studied. A petrographic analysis of the raw materials used in their manufacture makes it possible to place this production at the center of the problematics linked to the Gallic populations. The heterogeneous and probably local aspect of this production makes it possible to reconsider the pottery traditions, the management of the territory as well as the insertion of these communities in a larger sociological and cultural framework. The domestic, local or regional characterization of these productions is thus redefined according to these criteria. In order to compare data at different spatial, chronological and cultural scales, two oppidums near the coast, a plain habitat, a Gallic pottery production site and the Massaliète foundation of Olbia-de-Provence were chosen as study sites. From these collections, 181 thin sections have been made and make it possible to propose an initial analysis of the raw materials used.

18 THE ROLE OF LOCAL RESOURCES IN EARLY POTTERY FROM PATAGONIA (ARGENTINA): NEW NARRATIVES FROM ORGANIC RESIDUE ANALYSIS

Abstract author(s): Serna, Alejandro (University of York; Universidad Nacional de la Plata) - Lucquin, Alexandre - Admiraal, Marjolein - Montalvo-Cabrera, Javier (University of York) - Saghessi, Daniela (Universidad Nacional de la Plata) - Colonese, André (Universitat Autònoma de Barcelona) - Mange, Emiliano (Universidad Nacional de la Plata) - Ponce, Paola (University of York) - Romano, Victoria (Universidad Nacional de la Plata) - Craig, Oliver (University of York)

Abstract format: Oral

There has been a growing interest in paleodietary studies in the South American Southern Cone, especially regarding the role of domesticated plants in hunter-gatherer societies. In southern Patagonia (Argentina) recent research has focused on maize production, especially as the region is traditionally perceived to be marginal to its cultivation. Much less attention has been paid to the significance of other plant and animal resources and their role in the dispersal and adoption of pottery technology. As a result, narratives about the past are sometimes biased towards exotic domesticated crops rather than local food items.

Here we explore resource processing by Patagonian hunter-gatherers through organic residue analysis of their pottery. This analysis was carried out on ca. 100 pottery samples from Late Holocene sites across Patagonia using gas chromatography-mass spectrometry (GC-MS) and compound-specific isotope analysis of individual lipids by GC-combustion-isotope ratio-MS (GC-c-IRMS) (C16:0, C18:0). Through well-established molecular and isotopic criteria, we discern the types of commodities -marine, freshwater, ruminant, non-ruminant and plant- that might have been processed using ceramic containers. The results are used to examine whether Late Holocene Patagonian hunter-gatherers developed ceramics for specific purposes, illustrative of specialized subsistence practices in the absence of an agrarian economy.

A. LOCAL OR IMPORTED: EDXRF SPECTROMETRY COMPARISON OF POTTERY AND LOCAL CLAY SAMPLES FROM VELIKA HUMSKA ČUKA (CENTRAL BALKANS)

Abstract author(s): Mladenovic, Ognjen - Bulatović, Aleksandar (Institute of Archaeology, Belgrade) - Gajić-Kvašček, Maja (Vinča Institute of Nuclear Sciences) - Kapuran, Aleksandar - Filipović, Vojislav (Institute of Archaeology, Belgrade) - Ljuština, Marija (Faculty of Philosophy, University of Belgrade) - Milojević, Petar (Institute of Archaeology, Belgrade) - Milić, Bogdana (Spanish National Research Council, Barcelona)

Abstract format: Poster

The site of Velika Humska Čuka, represents one of the most important multilayered prehistoric settlements in the Balkans, with a continuous inhabitation for almost six millennia. The site is located on one of the main communications hubs of Southeastern Europe, with natural roads spreading towards the north, east, and south. The excavations at

the site have been conducted for almost a century, continuously yielding new finds and features from between the Eneolithic and the Late Bronze Age.

Within THE FLOW project, the elemental composition of the 10 uncommon Early Eneolithic vessels for this region and 5 clay samples from the site surroundings was determined by portable EDXRF spectrometry. The technique was chosen since the pots were reconstructed, so the applied analytical method should be non-destructive and non-invasive. The pots analysis was performed in situ, since their large dimensions. The measuring spots were chosen so that existing and available cracks suitable for measurements were analyzed. A milli-beam spot EDXRF spectrometer (in-house developed at the Vinča Institute of Nuclear Sciences, Belgrade, Serbia) was used for the analysis. A 35 kV high voltage, 800 μ A, no filter, and a 120 s measuring time were experimental parameters and kept constant during measurements of pots and clay samples.

The net peak area parameter value for the major, minor, and trace elements was selected for qualitative analysis. The same parameters were subjected to several pattern recognition techniques (HCA, PCA, DA) to explore similarities and differences among pots and raw materials. The elemental composition of the pigments used for the decoration of pots was also done using the same analytical technique and experimental setup. The detected chemical elements: Si, K, Ca, Ti, Mn, Fe, Rb, Sr, Y, and Zr, indicated similar composition between vessels and clay samples, indicating the utilization of local raw clays for production.

401 BIOLOGICAL PROFILING OF CREMATED INDIVIDUALS: CURRENT METHODOLOGICAL APPROACHES AND LIMITATIONS

Session theme: 4. People of the Present – Peopling the Past

Session organisers: Cortesão Silva, Filipa (Archaeology Institute of Mérida - Spanish National Research Council; Research Centre for Anthropology and Health, University of Coimbra) - Veselka, Barbara (Multidisciplinary Archaeology Research Institute, Department of Art Sciences and Archeology, Vrije Universiteit Brussel; Analytical, Environmental, Geo-chemistry, Department of Chemistry, Vrije Universiteit Brussel) - Loeffelmann, Tessi (Department of Archaeology, Durham University; Multidisciplinary Archaeology Research Institute, Department of Art Sciences and Archeology, Vrije Universiteit Brussel; Analytical, Environmental, Geo-chemistry, Department of Chemistry, Vrije Universiteit Brussel)

Session format: Regular session

In the bioarchaeological study of cremation burials, one of the main objectives is to obtain the biological profile of individuals. Nevertheless, the morphological and structural changes to the bone, resulting from the cremation process, and the often incomplete skeletal representation in the cremation deposit, makes it difficult or even impossible to collect the required data. Particularly in recent years, considerable efforts have been undertaken to develop and further improve specific methodologies for estimating age at death, biological sex, and paleopathologies in burnt individuals.

This session aims to promote the dissemination of the most recent (un)published work in this field, while also seeking to reflect on the possibilities and limitations these methods offer. Papers may concern morphological and/or metric macroscopic methods, as well as histology, computed tomography imaging, cementochronology, and other novel applications. Another welcome contribution is the refinement of the criteria currently used, especially for biological sex attribution, to standardize procedures and increase comparability between various communities.

Since the age at death, sex, and pathologies of the deceased could have influenced their funerary treatment, obtaining a reliable osteobiographical profile is crucial. The reconstruction of both individual and group profiles boosts the understanding of factors influencing the funerary rite of past populations that adopted cremation as their main burial ritual.

ABSTRACTS

1 CREMATIONS AND THE ARCHAEOLOGY OF DEATH: A HOLISTIC APPROACH TO THE OSTEOLOGICAL ANALYSIS OF BURNED HUMAN REMAINS

Abstract author(s): Cerezo-Román, Jessica (University of Oklahoma)

Abstract format: Oral

This paper will discuss a holistic approach to conducting osteological analysis on cremated human remains. Cremation is a multi-stage process involving the body's preparation, burning the body in a pyre, and often removing remains into a secondary burial or secondary cremation deposit. The treatment of the body before, during, and after the fire, as well as the formation processes of the deposit, heavily affect the preservation and scope of the osteological analysis of human remains. Therefore, it is proposed that the osteological analysis start in the archaeological excavation and archaeological context needs to be an integral part of the bioarchaeological analysis of cremated individuals. To illus-