



April, 30th 2021

Dear colleagues,

the pandemic continues and people surprisingly and thankfully continue to conduct and publish their research (page 3). Conference news (page 2), however, keep being sparse (page 2) and the holding of the XIX UISPP congress in Meknes is still under discussion. We have decided to cancel our two proposed session (S26A&B) and have instead elected to organize a virtual pyroarchaeology meeting for later this year. You can find more information on this in the conference section and we will distribute further information soon. We hope to see you all virtually in November!

With our best wishes

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Conference News

The **12th Experimental Archaeology Conference** took place in a virtual format March 29th to April 1st, 2021, and the talks, including several exciting fire talks, can still be watched online:

<https://exarc.net/meetings/eac12>

The virtual **9th Developing International Geoarchaeology conference** organized by the Interdisciplinary Center for Archaeology and Evolution of Human Behavior of the University of Algarve is taking place May 17th to 21st, 2021. The program includes several fire related talks and posters, from spatial studies of fire, to detailed analysis of fire residues and microcontextual analysis of combustion features to pyrotechnology.

The **XIX Congress of the UISPP** is scheduled to take place September 2nd-7th, 2021, in Meknes, Morocco. However, its exact format is still under discussion at the point of this newsletter.

The **2021 Meeting of the European Society of Human Evolution** will be held virtually September 22-25th. Abstract submission deadline is June 14th.

Our Pyroarchaeology Commission will hold a Virtual Pyroarchaeology Meeting this November (date tbc) and we will also hold our annual commission meeting in this context. Abstract submission deadline for our virtual pyroarchaeology meeting will be **August 30th, 2021**. Abstracts can be submitted to pyroarchaeology@gmail.com, abstract length is max 300 words with only one abstract per first-author. The presentation form will consist of pre-recorded videos (max 15 min length), which will be available for screening in the days before and after the meeting, and an additional 5 min live elevator pitches in individual sessions. Participation is restricted to UISPP members (membership fee for 2021-2023 € 75 Standard rate and € 35 Reduced rate, <https://www.uispp.org/membership>). We are planning to publish a Special Issue on this meeting, participation in this is, however, optional.

Publication News

We have finalized the publication of our Special Issue on our session in Paris “Fire as an artifact: Advances in the study of Paleolithic combustion features” at the 2018 XVIII UISPP congress. All papers were jointly published in the 2020 December Issue of the Journal of Paleolithic Archaeology.

Further publications on pyroarchaeology in the last 6 months include the following:

- Amadio, M., Boaretto, E., Bombardieri, L., 2021. Abandonment practices through the microscope lens. Microarchaeological data from Middle Bronze Age Erimi, Cyprus. *Levant* 0, 1–20. <https://doi.org/10.1080/00758914.2021.1890400>
- Amicone, S., Forte, V., Solard, B., Berthold, C., Memmesheimer, A., Mirković-Marić, N., 2021. Playing with fire: Exploring ceramic pyrotechnology in the Late Neolithic Balkans through an archaeometric and experimental approach. *J. Archaeol. Sci. Rep.* 37, 102878. <https://doi.org/10.1016/j.jasrep.2021.102878>
- Birkenfeld, M., Avner, U., Bar-Yosef Mayer, D.E., Scott Cummings, L., Natalio, F., Neumann, F.H., Porat, N., Scott, L., Simmons, T., Toffolo, M.B., Horwitz, L.K., 2020. Hunting in the skies: Dating, paleoenvironment and archaeology at the late Pre-Pottery Neolithic B site of Nahal Roded 110, Eilat Mountains, Israel. *Paléorient* 46, 43–68.
- Bodin, S.C., Vaschalde, C., Ollivier, D., 2021. First insights into the wood management for the production of lime given by the anthracological study of a 19th century lime kiln from Martinique, Lesser Antilles. *J. Archaeol. Sci. Rep.* 37, 102926. <https://doi.org/10.1016/j.jasrep.2021.102926>
- Cadet, M., Tereygeol, F., Sayavongkhamdy, T., Souksavady, V., Luangkhoth, T., Chang, N., Dillmann, P., Pryce, T.O., 2021. Late prehistoric copper smelting in the Lao PDR: Experimental reconstruction based on the Vilabouly Complex evidence. *J. Archaeol. Sci. Rep.* 37, 102932. <https://doi.org/10.1016/j.jasrep.2021.102932>
- Chantran, A., Cagnato, C., 2021. Boiled, fried, or roasted? Determining culinary practices in Medieval France through multidisciplinary experimental approaches. *J. Archaeol. Sci. Rep.* 35, 102715. <https://doi.org/10.1016/j.jasrep.2020.102715>
- Connolly, R., Jambrina-Enríquez, M., Herrera-Herrera, A.V., Mallol, C., 2021. Investigating Hydrogen Isotope Variation during Heating of n-Alkanes under Limited Oxygen Conditions: Implications for Palaeoclimate Reconstruction in Archaeological Settings. *Molecules* 26, 1830. <https://doi.org/10.3390/molecules26071830>
- Halbrucker, É., Fiers, G., Vandendriessche, H., De Kock, T., Cnudde, V., Crombé, P., 2021. Burning flint: An experimental approach to study the effect of fire on flint tools. *J. Archaeol. Sci. Rep.* 36, 102854. <https://doi.org/10.1016/j.jasrep.2021.102854>
- Jha, D.K., Samrat, R., Sanyal, P., 2021. The first evidence of controlled use of fire by prehistoric humans during the Middle Paleolithic phase from the Indian subcontinent. *Palaeogeogr. Palaeoclimatol. Palaeoecol.* 562, 110151. <https://doi.org/10.1016/j.palaeo.2020.110151>
- Klimaszewski-Patterson, A., Mensing, S., 2020. Paleoeological and paleolandscape modeling support for pre-Columbian burning by Native Americans in the Golden Trout Wilderness Area, California, USA. *Landsc. Ecol.* 35, 2659–2678. <https://doi.org/10.1007/s10980-020-01081-x>
- Koç, K., Koşun, E., Cheng, H., Demirtaş, F., Lawrence Edwards, R., Fleitmann, D., 2020. Black carbon traces of human activities in stalagmites from Turkey. *J. Archaeol. Sci.* 123, 105255. <https://doi.org/10.1016/j.jas.2020.105255>

- Kuligiewicz, A., Derkowski, A., 2021. Rehydroxylation of fired clays: Is the time to the quarter (TTTQ) model correct? *J. Archaeol. Sci.* 125, 105301. <https://doi.org/10.1016/j.jas.2020.105301>
- Lambrecht, G., Rodríguez de Vera, C., Jambriña-Enríquez, M., Crevecoeur, I., Gonzalez-Urquijo, J., Lazuen, T., Monnier, G., Pajović, G., Tostevin, G., Mallol, C., 2021. Characterisation of charred organic matter in micromorphological thin sections by means of Raman spectroscopy. *Archaeol. Anthropol. Sci.* 13, 13. <https://doi.org/10.1007/s12520-020-01263-3>
- Lambri, M.L., Lambri, O.A., Bonifacich, F.G., Zelada, G.I., Rocchietti, A.M., 2021. Determining the temperatures to which the bone was heated in archaeological contexts. Distinguishing between boiled and grilled bones. *J. Archaeol. Sci. Rep.* 37, 102954. <https://doi.org/10.1016/j.jasrep.2021.102954>
- Leroy, S., Bauvais, S., Delqué-Količ, E., Hendrickson, M., Josso, N., Dumoulin, J.-P., Soutif, D., 2020. First experimental reconstruction of an Angkorian iron furnace (13th–14th centuries CE): Archaeological and archaeometric implications. *J. Archaeol. Sci. Rep.* 34, 102592. <https://doi.org/10.1016/j.jasrep.2020.102592>
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- Monetti, L., Voulgari, M., Karagiorgou, I., Moraitis, K., 2021. Macroscopic determination of the pre-burning condition of human remains recovered from an unusual forensic context: A case report. *J. Forensic Leg. Med.* 78, 102115. <https://doi.org/10.1016/j.ijflm.2020.102115>
- Moon, L.R., Judd, E.J., Thomas, J., Ivany, L.C., 2021. Out of the oven and into the fire: Unexpected preservation of the seasonal $\delta^{18}O$ cycle following heating experiments on shell carbonate. *Palaeogeogr. Palaeoclimatol. Palaeoecol.* 562, 110115. <https://doi.org/10.1016/j.palaeo.2020.110115>
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- Ozán, I.L., Orgeira, M.J., Buscaglia, S., Bianchi Villelli, M., Vásquez, C.A., Cieplicki, A., Naselli, M., 2020. Sediments vs. Historical narratives: The use of soil magnetic properties to evaluate the existence of a historical fire in an 18th century Spanish fort (Patagonia, Argentina). *J. Archaeol. Sci. Rep.* 34, 102577. <https://doi.org/10.1016/j.jasrep.2020.102577>
- Paba, R., Thompson, T.J.U., Fanti, L., Lugliè, C., 2021. Rising from the ashes: A multi-technique analytical approach to determine cremation. A case study from a Middle Neolithic burial in Sardinia (Italy). *J. Archaeol. Sci. Rep.* 36, 102855. <https://doi.org/10.1016/j.jasrep.2021.102855>
- Pietraszek, A.V., Zaidner, Y., Shahack-Gross, R., 2021. The distribution and treatment of fire remains across Unit V of the Middle Paleolithic open-air site of Neshar Ramla, Israel. *Quat. Int.* <https://doi.org/10.1016/j.quaint.2021.03.027>
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- Stahlschmidt, M.C., Mallol, C., Miller, C.E., 2020. Fire as an Artifact—Advances in Paleolithic Combustion Structure Studies: Introduction to the Special Issue. *J. Paleolit. Archaeol.* 3, 503–508. <https://doi.org/10.1007/s41982-020-00074-1>
- Toffolo, M.B., 2020. Radiocarbon Dating of Anthropogenic Carbonates: What Is the Benchmark for Sample Selection? *Heritage* 3, 1416–1432. <https://doi.org/10.3390/heritage3040079>
- Verly, G., Rademakers, F.W., Somaglino, C., Tallet, P., Delvaux, L., Degryse, P., 2021. The Chaîne Opératoire of Middle Kingdom smelting batteries and the problem of fuel: Excavation, experimental and analytical studies on ancient Egyptian metallurgy. *J. Archaeol. Sci. Rep.* 37, 102708. <https://doi.org/10.1016/j.jasrep.2020.102708>
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