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# Pyroarchaeology Commission

**November 23rd, 2022**

**Dear colleagues,**

**Welcome to the 9th Newsletter of the Pyroarchaeology Commission!**

**Our commission had a great time at the 28th Annual Meeting of the EAA, we heard many fascinating talks about experiments in pyroarchaeology! In 2023, the West University of Timișoara will host the XX UISPP congress with the very fitting theme "Interdisciplinarity in Archaeology". We are planning to propose two sessions on pyroarchaeology this time around. You can find more information on the XX UISPP congress and other conference news on page 2 and publications news on pages 3 to 6.**

**With our best wishes**

**Carolina, Chris and Mareike***

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## Conference News

Not too long ago the **annual meeting of the European Association of Archaeologists** took place in Budapest and our Pyroarchaeology Commission organized a hybrid session called “Let it burn! Experimental and Ethnoarchaeological Approaches in Pyroarchaeology”, which was a great success. We had very exciting presentations and a lively discussion. Furthermore, our commission member **Ségolène Vandevelde** co-organized session #198 “From Fire to Light”, which was also a great success. We were glad to see so many of you there in person!

There were some exciting pyroarchaeology talks and posters at this year’s meeting of the European Society for the Study of Human Evolution in Tübingen, including talks on Neanderthal pyrotechnology, tar production, fire making and several experimental studies.

At the end of October, the 6th Experimental Archaeology Conference in Pézenas took place with several presentations concerning Pyroarchaeology within the Taphonomy sessions in which Belarte and colleagues participated.

Next year, the **XXI INQUA** congress takes places in Rome, July 13th to 20th, 2023, with several sessions on geoarchaeology (including by our commission member Vera Aldeias) providing ample opportunity to present your pyroarchaeology research. Abstract submission deadline is November 28th, 2022

Also happening next year is the next UISPP congress, September 3th to 10th, 2023. This XXth congress will take place **in Timisoara, Romania,** and our commission is planning to organize two session, one general and one specialized session.

**Publication News**

A series of special issue on pyroarchaeological topics is in process! Our commission is organizing a Topical Collection in the journal Archaeological and Anthropological Sciences on “Archaeological Sciences Approaches to Pyroarchaeology” - with 11 planned contributions.

Carme Belarte and colleagues are organizing a Special Issue on Fire Installations to be published in the Journal of Archaeological Sciences: Reports. Those already online, are including in the list below.

Segolene Vandevelde and colleagues are also preparing a Special Issue on “From Fire to Light” in the Journal of Archaeological Sciences: Reports.

In the last 6 months the following papers were published on pyroarchaeological research (up to October, not a complete list):

Allué, E., Mallol, C., Aldeias, V., Burguet-Coca, A., Cabanes, D., Carrancho, Á., Connolly, R., Leierer, L., Mentzer, S., Miller, C. and Sandgathe, D., 2022. Fire among Neanderthals. In Updating Neanderthals (pp. 227-249). Academic Press.

Belarte, M.-C., Quiles, M.P., Portillo, M., Saorin, C., Sagués, M.M., Pecci, A., Vila, S., Pou, J., Castells, G., Morer, J., Fernández, J., 2022. Experimental Archaeology of Iron Age Firing Structures from the Western Mediterranean. EXARC J.

Bortolini, M., Agnoletto, F.C., Argiriadis, E., Nicosia, C., McWethy, D.B., Devos, Y., Stortini, A.M., Baldan, M., Roman, M., Vendrame, T., Scaggiante, R., Bruno, B., Pojana, G., Battistel, D., 2022. Insight into the carbonaceous fraction of three cultural layers of different age from the area of Verona (NE Italy). CATENA 217, 106453. https://doi.org/10.1016/j.catena.2022.106453

Davies, B., Power, M.J., Braun, D.R., Douglass, M.J., Mosher, S.G., Quick, L.J., Esteban, I., Sealy, J., Parkington, J., Faith, J.T., 2022. Fire and human management of late Holocene ecosystems in southern Africa. Quat. Sci. Rev. 289, 107600. https://doi.org/10.1016/j.quascirev.2022.107600

de Sousa, D.V., Rodet, M.J., Duarte-Talim, D., Teixeira, W.G., Prous, A., Vasconcelos, B.N., Pereira, E., n.d. Linking anthropogenic burning activities to magnetic susceptibility: Studies at Brazilian archaeological sites. Geoarchaeology n/a. https://doi.org/10.1002/gea.21941

Diehl, R.J., Keller, H.M., Hodgkins, J., 2022. Towards an interpretive framework for heated ostrich eggshell: An actualistic study. J. Archaeol. Sci. Rep. 43, 103465. https://doi.org/10.1016/j.jasrep.2022.103465

Fuente-Fernández, Ó., 2022. Environmental conditions around fire inside paleolithic caves. The hearths of Tito Bustillo (Ribadesella, Asturias, Spain). Journal of Archaeological Science: Reports, 45, p.103590.

Koch, T.J., Schmidt, P., 2022a. A new method for birch tar making with materials available in the Stone Age. Sci. Rep. 12, 413. https://doi.org/10.1038/s41598-021-04161-3

Koch, T.J., Schmidt, P., 2022b. The unique laurel-leaf points of Volgu document long-distance transport of raw materials in the Solutrean. Archaeol. Anthropol. Sci. 14, 101. https://doi.org/10.1007/s12520-022-01572-9

Manea, B., Opris, V., Ignat, T., Lazar, C., 2022. Reforming procedures. A methodology for archaeological experiments regarding pottery combustion structures. J. Archaeol. Sci. Rep. 45, 103617. https://doi.org/10.1016/j.jasrep.2022.103617

Marcazzan, D., Miller, C.E., Ligouis, B., Duches, R., Conard, N.J. and Peresani, M., 2022. Geoarchaeological investigation of anthropogenic features from the Middle and Upper Paleolithic occupations of Fumane Cave, Italy. JOURNAL OF ANTHROPOLOGICAL SCIENCES, 100(B), pp.1-26.

Marchenko, D.V., Zhilich, S.V., Rybin, E.P., Nokhrina, T.I., Bazargur, D., Gunchinsuren, B., Olsen, J.W., Khatsenovich, A.M., 2022. Evidence of wildfire versus anthropogenic combustion features: Spatial and macro-charcoal analyses of the final middle Paleolithic horizon at Orkhon 7, central Mongolia. Archaeological Research in Asia 32, 100409. https://doi.org/10.1016/j.ara.2022.100409

Moody, K., Ristovski, N., Manne, T., Ward, I. and Veth, P., 2022. A burning question: What experimental heating of Australian fauna can tell us about cooking practices in Boodie Cave, Barrow Island, northwest Australia. Journal of Archaeological Science: Reports, 44, p.103535.

Murphree, W.C. and Aldeias, V., 2022. The evolution of pyrotechnology in the Upper Palaeolithic of Europe. Archaeological and Anthropological Sciences, 14(10), pp.1-26.

Oertle, A. and Szabó, K., 2022. Thermal Influences on Shells: an Archaeological Experiment from the Tropical Indo-pacific. Journal of Archaeological Method and Theory, pp.1-29.

Pietraszek, A.V., Zaidner, Y. and Shahack-Gross, R., 2022. The distribution and treatment of fire remains across Unit V of the Middle Paleolithic open-air site of Nesher Ramla, Israel. Quaternary International, 624, pp.107-116.

Rodriguez, M. del R., Aguirre, M.G., Babot, P., 2022. Firewood, architecture for fire and society. Agro-pastoralist atmospheres in the Argentine Puna (South Central Andes, ca. 1500 B.P.). J. Archaeol. Sci. Rep. 46, 103672. https://doi.org/10.1016/j.jasrep.2022.103672

Schmidt, P., Koch, T.J., Berthold, C., Lauxmann, F., Nickel, K.G., 2022a. The evolution of strength, elasticity and rupture behaviour of birch tar made with 'double-pot' techniques during tar cooking. Archaeometry n/a. https://doi.org/10.1111/arcm.12820

Schmidt, P., Koch, T.J., February, E., 2022b. Archaeological adhesives made from Podocarpus document innovative potential in the African Middle Stone Age. Proc. Natl. Acad. Sci. 119, e2209592119. https://doi.org/10.1073/pnas.2209592119

Shen, H., Zhou, X., Yang, J., Liu, J., Hu, Y., Xiao, G., Zheng, Y., Wang, J., Yang, S., Yue, J., Zhao, K., Li, X., 2022. Two-million-year record of fire in temperate East Asia. Quat. Sci. Rev. 295, 107765. https://doi.org/10.1016/j.quascirev.2022.107765

Simões, C.D. and Aldeias, V., 2022. Thermo-microstratigraphy of shells reveals invisible fire use and possible cooking in the archaeological record. Frontiers in Earth Science, p.1398.

Stepka, Z., Azuri, I., Horwitz, L.K., Chazan, M. and Natalio, F., 2022. Hidden signatures of early fire at Evron Quarry (1.0 to 0.8 Mya). Proceedings of the National Academy of Sciences, 119(25), p.e2123439119.

Téllez, E., Saladié, P., Pineda, A., Marín, J., Vallverdú, J., Chacón, M.G. and Carbonell, E., 2022. Incidental burning on bones by Neanderthals: the role of fire in the Qa level of Abric Romaní rock-shelter (Spain). Archaeological and Anthropological Sciences, 14(6), pp.1-20.

Tomé, L., Jambrina-Enríquez, M., Égüez, N., Herrera-Herrera, A.V., Davara, J., Marrero Salas, E., Arnay de la Rosa, M. and Mallol, C., 2022. Fuel sources, natural vegetation and subsistence at a high-altitude aboriginal settlement in Tenerife, Canary Islands: Microcontextual geoarchaeological data from Roques de García Rockshelter. Archaeological and Anthropological Sciences, 14(10), pp.1-21.

Wöstehoff, L., Kindermann, K., Amelung, W., Kappenberg, A., Henselowsky, F., Lehndorff, E., 2022. Anthropogenic fire fingerprints in Late Pleistocene and Holocene sediments of

Sodmein Cave, Egypt. J. Archaeol. Sci. Rep. 42, 103411. https://doi.org/10.1016/j.jasrep.2022.103411

Yamamoto, M., Wang, F., Irino, T., Yamada, K., Haraguchi, T., Nakamura, H., Gotanda, K., Yonenobu, H., Leipe, C., Chen, X.Y. and Tarasov, P.E., 2022. Environmental evolution and fire history of Rebun Island (Northern Japan) during the past 17,000 years based on biomarkers and pyrogenic compound records from Lake Kushu. Quaternary International, 623, pp.8-18.

Yuan, Z., Wu, D., Wang, T., Ma, X., Li, Y., Shao, S., Zhang, Y., Zhou, A., 2022. Holocene fire history in southwestern China linked to climate change and human activities. Quat. Sci. Rev. 289, 107615. https://doi.org/10.1016/j.quascirev.2022.107615