



April, 9<sup>th</sup> 2019

Dear Colleagues,

We are bringing you many more news on publications and conferences in pyroarchaeology. Much has happened in the last 6 months! You can find information on our next commission meeting as well as conference news on page 2 and publication news on pages 3 and 4. On page 4 you will find upcoming publications and a new category, research news, so more upcoming publications!

We would like to extend our warmest congratulations to our commission member Andrew Sorensen for winning this year's Tübingen Prize for Ice Age Research! Very well done!!

With our best wishes

Carolina, Chris and Mareike\*

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## Conference News

Taking place right now, **April 9<sup>th</sup> and 10<sup>th</sup>, 2019**, is the annual **Meeting of the Paleoanthropology Society in Albuquerque, New Mexico**, U.S.A, with a couple of pyroarchaeology talks and posters.

Right after that is the **84<sup>th</sup> SAA conference, April 10 - 14, 2019**, at the same place, **Albuquerque**, with many talks on pyroarchaeology including topics such as fire rituals, cremation burials, land management and wildfires as hazards for archaeological sites. There also be also two sessions on the topic. Carolina is organizing a session on “Charred Organic Matter in the Archaeological Sedimentary Record” and Giblin, Parditka and Duff are organizing a poster session on “Learning about the past with Fragments from the Fire”.

The Institute of Archaeology at the University of London is hosting the **“Trial by Fire” Conference, May 17<sup>th</sup> to 18<sup>th</sup>, 2019**. T. Thompson and M. Radivojević will be the keynote speakers!

The **20th INQUA** Congress will be held between **July 25<sup>th</sup> and 31<sup>st</sup>, 2019, in Dublin, Ireland**. There is no designated pyroarchaeology session, but wildfire and human-fire relationships are featured in many.

The next **XIX UISPP congress** will take place in **Meknes, Morocco** (not Geneva, Switzerland as previously announced) from **September 1<sup>st</sup> to September 5<sup>th</sup> 2020**. The session proposal deadline will be some time between May and October this year already. The commission will organize a pyroarchaeology session, but do let us know if you are also planning for a session! We are looking forward to a continued presence of pyroarchaeology sessions and talks at the UISPP meetings!

## Upcoming Commission Meetings

We will have this year’s **annual Commission meeting** at the SAA conference in Albuquerque. Please let us know, if you will to attend!

## Publication News

- Bentsen, S.E., Wurz, S., 2019. Color Me Heated? A Comparison of Potential Methods to Quantify Color Change in Thermally-Altered Rocks. *J. Field Archaeol.*
- Buonasera, T., Herrera-Herrera, A.V., Mallol, C., 2019. Experimentally Derived Sedimentary, Molecular, and Isotopic Characteristics of Bone-Fueled Hearths. *J. Archaeol. Method Theory*. <https://doi.org/10.1007/s10816-019-09411-3>
- Butler, D.H., Shahack-Gross, R., 2017. Formation of Biphasic Hydroxylapatite-Beta Magnesium Tricalcium Phosphate in Heat Treated Salmonid Vertebrae. *Sci. Rep.* 7, 3610. <https://doi.org/10.1038/s41598-017-03737-2>
- Cho, N.-C., Lee, H.-Y., Lee, J.-G., 2018. Microstructure and heat treatment of Early Iron Age cast iron axes excavated from the Sinpung site, Wanju, Jeonbuk, in the Korean Peninsula. *Archaeol. Anthropol. Sci.* <https://doi.org/10.1007/s12520-018-0693-8>
- Cutts, R.B., 2019. Thermal curved-fragments: A method for identifying anthropogenic fire in the archaeological record. *Journal of Archaeological Sciences* 106, 10-22.
- Fernández-Jalvo, Y., Tormo, L., Andrews, P., Marin-Monfort, M.D., 2018. Taphonomy of burnt bones from Wonderwerk Cave (South Africa). *Quat. Int.*, In Honour of James Brink 495, 19–29. <https://doi.org/10.1016/j.quaint.2018.05.028>
- Gardner, T.H., 2019. Assessing the contribution of integrated geoarchaeological approaches to understand the formation and function of burnt mounds: the example of Hoppenwood Bank, North Northumberland. *Archaeol. J.* 176, 51–83. <https://doi.org/10.1080/00665983.2018.1463648>
- Gosling, W.D., Cornelissen, H.L., McMichael, C.N.H., 2019. Reconstructing past fire temperatures from ancient charcoal material. *Palaeogeogr. Palaeoclimatol. Palaeoecol.* 520, 128–137. <https://doi.org/10.1016/j.palaeo.2019.01.029>
- Jambrina-Enríquez, M., Herrera-Herrera, A.V., Mallol, C., 2018. Wax lipids in fresh and charred anatomical parts of the *Celtis australis* tree: Insights on paleofire interpretation. *Org. Geochem.* 122, 147–160. <https://doi.org/10.1016/j.orggeochem.2018.05.017>
- Kreimerman, I., Shahack-Gross, R., 2018. Understanding conflagration of one-story mud-brick structures: an experimental approach | SpringerLink. *Archaeol. Anthropol. Sci.* <https://doi.org/10.1007/s12520-018-0714-7>
- Mota, L., Scheel-Ybert, R., 2019. Landscape and firewood use in Toca do Boqueirão da Pedra Furada (Piauí, Brazil) during early and Mid-Holocene. *J. Archaeol. Sci. Rep.* 23, 281–290. <https://doi.org/10.1016/j.jasrep.2018.10.034>
- Roos, C.I., Zedeño, M.N., Hollenback, K.L., Erlick, M.M.H., 2018. Indigenous impacts on North American Great Plains fire regimes of the past millennium. *Proc. Natl. Acad. Sci.* 115, 8143–8148. <https://doi.org/10.1073/pnas.1805259115>
- Rosell, J., Blasco, R., 2019. The early use of fire among Neanderthals from a zooarchaeological perspective. *Quat. Sci. Rev.* <https://doi.org/10.1016/j.quascirev.2019.03.002>
- Roussos, D.N., Kyparissi-Apostolika, N., 2019. An integrated geoarchaeological methodology to reveal site formation processes linked to building practices and pyrotechnology at Middle Neolithic Imvrou Pigadi, Greece. *Geoarchaeology* 34, 200–220. <https://doi.org/10.1002/gea.21711>
- Schmidt, P., Buck, G., Berthold, C., Lauer, C., Nickel, K.G., 2018. The mechanical properties of heat-treated rocks: a comparison between chert and silcrete. *Archaeol. Anthropol. Sci.* <https://doi.org/10.1007/s12520-018-0710-y>
- Schmidt, P., Hiscock, P., 2019. Evolution of Silcrete Heat Treatment in Australia—a Regional Pattern on the South-East Coast and Its Evolution over the Last 25 ka. *J. Paleolit. Archaeol.* 2, 74–97. <https://doi.org/10.1007/s41982-019-0020-7>
- Shahack-Gross, R., Shaar, R., Hassul, E., Ebert, Y., Forget, M., Nowaczyk, N., Marco, S., Finkelstein, I., Agnon, A., 2018. Fire and collapse: Untangling the formation of

destruction layers using archaeomagnetism. *Geoarchaeology* 33, 513–528.  
<https://doi.org/10.1002/gea.21668>

Toffolo, M.B., Ritchie, M., Sellers, I., Morin, J., Lyons, N., Caldwell, M., Albert, R.M., Letham, B., Berna, F., 2019. Combustion features from short-lived intermittent occupation at a 1300-year-old Coast Salish rock shelter, British Columbia: The microstratigraphic data. *J. Archaeol. Sci. Rep.* 23, 646–661. <https://doi.org/10.1016/j.jasrep.2018.11.034>

Wroth, K., Cabanes, D., Marston, J.M., Aldeias, V., Sandgathe, D., Turq, A., Goldberg, P., Dibble, H.L., 2019. Neanderthal plant use and pyrotechnology: phytolith analysis from Roc de Marsal, France. *Archaeol. Anthropol. Sci.* <https://doi.org/10.1007/s12520-019-00793-9>

## Upcoming Publications

Several papers from the 2018 UISPP session IV-4 “Fire as an artifact” will appear in a Special Issue on this session in the *Journal of Paleolithic Archaeology*. We are planning to continue publishing UISPP sessions on pyroarchaeology organized by the commission.

The 2018 EAA session hosted by Paloma Vidal, Aureade Henry et al., “Disentangling human from natural factors: Taphonomical value of microanatomical features on archaeological wood and charcoal assemblages”, will be published in the *Journal of Archaeological Sciences: Reports*. An open call, where anyone interested is welcome to submit their paper on wood or charcoal taphonomy, is closing on **May 31<sup>st</sup>**.

## Research News

Isabelle Théry-Parisot and Auréade Henry have been experimenting in the lab with Paloma Vidal on the combustion behavior and microscopic biodegradation markers of *Pinus canariensis* (see photo). Paloma’s post-doc is called “Characterization of firewood gathering activities among aboriginal groups from the Canary Islands” (APOSTD/2017/126, Generalitat Valenciana).

