

Paleoanthropology Society  
2019 Annual Meeting  
April 9 and 10  
Albuquerque Convention Center

Program

POSTERS

**Tuesday April 9: 4:00 – 6:00**

**La Sala Room (Lower level of convention center)**

Belmaker, M., T. Tamura, S. Kadowaki

Modern human adaptability to hot and dry environments: The faunal evidence from Tor Hamar F, Southern Jordan.

Belmiro, J., J. Cascalheira, N. Bicho, J. Haws

The Gravettian-Solutrean transition in western Iberia: new data from the sites of Vale Boi and Lapa do Picareiro (Portugal).

Benedetti, M., J. Haws, L. Friedl

Paleoclimate and site formation processes across the Middle and Upper Paleolithic at Lapa do Picareiro, Portugal

Beyin, A., K. Ryano

Hierarchical centripetal core technology in the Kilwa basin, coastal Tanzania: Implications for hominin movements between interior and coastal East Africa

Carvalho, M., D. Meiggs, E. Jones, M. Benedetti, J. Haws

A stable isotopes analysis of ungulate remains from Lapa do Picareiro: an assessment of refugia concepts during the Middle Paleolithic and transition to Upper Paleolithic

d' Oliveira Coelho, J., R. Anemone, S. Carvalho, R. Bobe

Let the computers do the surveying: applying support vector machines on spectral data to identify new fossiliferous deposits in Koobi Fora, Kenya

Coil, R., K. Yezzi-Woodley, M. Tappen

Comparisons of impact flakes derived from hyena and hammerstone long bone breakage

Cooper, A., G. Tostevin, E. Boaretto, G. Čulafić, M. Baković, N. Borovinić, G. Monnier

Setting the standard: differentiation of modern wood ash using infrared spectroscopy: archaeological applications to Paleolithic rock shelter, Crvena Stijena, Montenegro.

Costa, C., D. Braun, T. Matsuzawa, S. Carvalho, K. Almeida-Warren

Water sources and tool site distributions: hominins and chimpanzees compared

Daegling, D.

Shear stress as a determinant of bone growth and morphology and its relevance to functional inference in the fossil record

Egeland, C., M. Saunders, A. Costa-Terryll, C. Fadem, R. Byerly, B. Kirchoff, D. Barboni

BK East, an early Pleistocene site in Middle Bed II (Olduvai Gorge, Tanzania)

Fanuka, M.

Differential diagenesis as determined from infrared spectroscopy on faunal bones from Middle Paleolithic site El Salt, Spain

Gill, J., D. Adler, K. Wilkinson, A. Barun, B. Gasparyan

Nothing from nothing ever yet was born: A morphometric exploration of evolutionary relationships between biface and core technology at Nor Geghi I, Armenia

Gorgone, L., M. Tocheri, J. Massey, M. Cranfield, T. Stoinski, A. Mudakikwa, J. Junno, M. Robbins, Aggrey Rwetsiba, Robert Bitariho, Shannon C. McFarlin

Medial cuneiform morphology reflects ecological divergence between Virunga and Bwindi mountain gorillas

Haws, J., M. Benedetti, L. Friedl, N. Bicho, J. Cascalheira, M. Carvalho, G. Ellis, B. Zinsious, S. Talamo

Earlier than we thought: the Early Aurignacian technocomplex at Lapa do Picareiro (Portugal) and the arrival of modern humans in southwestern Iberia 40,000 years ago

Huang, C., J. Murray, C. Gravel-Miguel, M. Gumaru, A. Zipkin

An experimental use-wear analysis of drilled gastropod operculum using 3D microscopy and its implications for Middle Stone Age symbolic behaviour

Johnson, K., K. Dropps, K. Yezzi-Woodley

Testing for inter- and intra- observer error in bone fracture angle measurement data

Keller, H., J. Hodgkins, N. Cleghorn

Nutritional stress and marine exploitation: Subsistence strategies at KEH-1, South Africa, during the Middle and Later Stone Age transition

Kelsey, B., S. Mavuso, D. Colarossi, C. Ssebuyungu, E. Ndiema, J. Harris, D. Braun, K. Ranhorn  
The lithostratigraphy of the Middle Stone Age in the northeastern Turkana Basin

Leiss, A., I. Cajceres, M. Rogers, J. van der Made, S. Semaw  
Paleoecology of OGS-12, an Early Acheulian archaeological site at Gona, Ethiopia.

Li, L, G. Leader, A. Abdolazadeh, T. Doganzic, D. Olszewski, A. Kralick, C. Graubard, H. Dibble  
Force and flake Size. Implications for hominin strength

McGrath, J.  
A comparison of two Late Pleistocene ochre records from South Africa

Mentzer, S. Wurz  
Differential preservation of anthropogenic deposits in Cave 2, Klasies River Main Site (South Africa)

Monnier, G., G. Tostevin, M. Baković, N. Borovinić, C. Mallol, Goran Čulafić, E. Morin, E. Boaretto, G. Pajović, P. Vidal-Matutano, M. Jambrić, Á. Carrancho, D. Mihailović, N. Mercier, M. Morley, S. Porter, R. Whallon

New excavations at Crvena Stijena, Montenegro: a multidisciplinary investigation of fire use by Neanderthals in Southeastern Europe

Morong, S., K. Tuosto, E. Ndiema, D. Braun  
A preliminary analysis of Holocene burials from West and East Turkana

Murray, J., C. Gravel-Miguel, B. Schoville, E. Otajrola-Castillo, J. Harris, C. Wren, B. Wood, C. Marean  
An agent-based modeling approach to explain the rarity of projectile points in archaeological sites

Paige, J., D. Dytchkowskyj, C. Perreault  
Age uncertainty of stone tool assemblages, and its effect on measuring rates of increases in technological complexity

Plummer, M., B. Nachman, S. Melton, M. Fanuka, J. Crowell, N. Tabor, L. Todd, J. Kappelman  
Reconstructing Middle Stone Age paleoclimates in the lowlands of NW Ethiopia from isotopic indicators in ancient enamel

Pobiner, B., K. Peters  
Taphonomic drivers of Early Stone Age butchery mark patterns

Popescu, G., M. Anghelinu, M. Barton  
Locational modeling of Upper Paleolithic settlement in Northeastern Romania

Porter, J., A. Brooks  
New data on the Early Stone Age of the Semliki River (DR Congo)

Porter, S., M. Roussel, M. Soressi, G. Tostevin

A lithic behavioral approach to cultural transmission hypotheses across the Late Mousterian, Chatelperronian, and Protoaurignacian in Western Europe

Raja, M., N. Bicho, Jonathan Haws, J. Cascalheira, E. Skosey-Lalonde, B. Zinsious, I. Benedetti, M. Benedetti, C. Goncalves, M. Achimo, M. Carvalho, A. Gomes

Deciphering sediments in archaeological context: Inferences on the palaeoenvironmental changes and the site formation processes in the Middle and Late Stone Age, Txina-Txina, Massingir (Mozambique)

Reed, D.

Origins: a paleoanthropology database

Rmoutilova, R., B. Maureille, J. Bruzek

Revisiting the sex of Neandertal coxal bones using a probabilistic approach

Rowe, C.

Identification of microbial modifications on postmortem bone

Stahlschmidt, M., S. Heinrich, J. Bartel, T. Steele

Burning signature in tortoise bones produced during a recent wildfire at Cape Point: Implications for archaeological interpretations of burning signatures in bones

Szuster, D., B. Patel, C. Orr

A novel approach to reconstructing the forearm length and brachial index of *Australopithecus afarensis* specimen A.L. 288-1 ("Lucy")

Uy, J., J. Hawks, M. Kagaya, T. Miyabe-Nishiwaki

What can the pelvis tell us about gut size?

Veatch, G., A. Julianto, T. Sutikna, J. Saptomo, Matthew

The taphonomy of extant small animals from Flores, Indonesia: Relevance for interpreting anthropogenic behaviors at Liang Bua

Zinsious, B., T. Pereira, M. Benedetti, L. Friedl, J. Haws

Site and assemblage Integrity at Lapa do Picareiro: The Middle to Upper Paleolithic Transition in Portugal from a secure context.

Zipkin, A., E. Fisher, H. Cawthra, G. Gordon, K. Knudson

Beyond the Swartberg: Preliminary findings from an extended strontium isoscape in the South African Karoo

## ORAL PRESENTATIONS

**Tuesday, April 9: 9:00 – 12:15**

**Picuris/Sandia/Santa Ana Room (Lower level of convention center)**

9:00 Introduction

9:15 Almeida-Warren, K., D. Braun, T. Matsuzawa, S. Carvalho

Landscaping chimpanzee and early hominin tool-use and resource exploitation an ecological approach

9:30 Hoffecker, J., I. Torao Hoffecker

Does computation theory provide an interpretive framework for Paleolithic archaeology?

9:45 Otarola-Castillo, E.

Dietary portfolios - A theoretical development to explain hominin foraging behavior

10:00 Pargeter, J., N. Kreisheh, D. Stout

Knowledge vs. Know-how? Dissecting the foundations of stone knapping skill.

10:15 Discussion

10:30 Quinn, R.

Isotopic equifinality and rethinking the diet of *Australopithecus anamensis*

10:45 Bruxelles, J., D. Stratford, R. Maire, T. Pickering, J. Heaton, A. Beaudet, K. Kuman, R. Crompton, K. Carlson, T. Jashashvili, J. McClymont, G. Leader, R. Clarke

A multiscale stratigraphic investigation of the context of StW 573 Little Foot and Member 2, Sterkfontein Caves, South Africa.

11:00 Pelissero, A., C. Musiba, C. Magori, J. Mwankunda, H. Bunn

Rethinking the Laetoli hominin trackmakers in light of new prints at Site S

11:15 Reeves, J., D. Braun

Time-averaging, hominin foraging strategies, and assemblage formation: How do we draw behavioral inferences from the Earlier Stone Age record?

11:30 Hlubik, S., R. Kinyanjui, G. Oppenheim, A. Stricklan, C. Daniel, O. ben Brahim, D. Braun

Preliminary results of phytolith analysis at FxJj20 AB, Koobi Fora, Kenya: environmental reconstruction and implications for studying fire in the archaeological record

11:45 Finestone, E., T. Plummer, D. Braun, P. Ditchfield, J. Reeves

Raw material selection and transport at three Oldowan localities on the Homa Peninsula, Kenya

12:00 Discussion

**Tuesday April 9: 2:00 – 4:00**

**Picuris/Sandia/Santa Ana Room (Lower level of convention center)**

2:00 Du, A., Z. Alemseged

Temporal evidence shows *Australopithecus sediba* is unlikely to be the ancestor of *Homo*

2:15 L. de la Torre, J. Nijau, L. McHenry

A quantitative assessment of percussion marks at HWK EE, Olduvai Gorge, Tanzania.

2:30 Mercader Florin, J. P. Durkin, P. Bushozi, S. Clarke, J. Favreau, K. Fella, J. Inwood, M. Itambu, F. Larter, P. Lee, A. Mohammed, A. Mwambwiga, R. Patalano, M. Quesada, S. Hubbard  
New Work at Ewass Oldupa and Engaji Nanyori (Beds I-IV, Olduvai Gorge, Tanzania)

2:45 Harris, J., C. Marean, J. Thompson, M. Torquato, Z. Alemseged, S. McPherron, Erik Otjrola-Castillo  
An updated Bayesian model of bone surface modification and application to the “Dikika Marks”  
(Ethiopia, 3.4 Ma)

3:00 Alemseged, Z., J. Wynn, D. Geraads, D. Reed, A. Barr, R. Bobe, S. McPherron

New hominin remains from Mille-Logya, Afar, Ethiopia and their implication for the origin of *Homo*

3:15 Herries, A., A. Blackwood, M. Meredith-Williams, M. Caruana

Acheulian artefacts and associated wood from Amanzi Springs, Eastern, Cape South Africa.

3:30 Semaw, S., M. Rogers, I. Caceres, A. Leiss

The Early Acheulian archaeology from Gona, Ethiopia: technology and implications on hominin diet

3:45 Discussion

**Poster Session 4:00 – 6:00**

**La Sala Room (Lower level of convention center)**

**Wednesday April 10: 8:30 – 12:15**

**Picuris/Sandia/Santa Ana Room**

8:30 Watson, S., S. Nasoordeen, P. Schmidt

Effects of inter-source variability in the geochemical composition of silcrete on transformations during heat treatment

8:45 Schoville, B., L. Gliganic, J. Wilkins, R. Pickering, K. Brown, A. Blackwood, J. von der Meden

Early Middle Stone Age technology on the edge of the southern Kalahari at Witberg 1, Tswalu Kalahari Reserve, South Africa

9:00 Ranhorn, K., Silindokuhle, S. Mavuso, D. Colarossi, T. Dogandzic, K. OBrien, E. Ndiema, D. Braun, J. Harris

New archaeological evidence from the Late Pleistocene of East Turkana

9:15 Davis, C., J. Kappelman, L. Todd

Seasonality and subsistence strategies at SM1, a late Middle Stone Age Site in the lowlands of northwestern Ethiopia

9:30 Ambrose, S., A. Brooks

Revised chronology and environment of modern humans at Qafzeh based on ostrich eggshell stable isotopes and amino acid racemization

9:45 Discussion

10:00 Pearson, O., A. Pablos, Y. Rak, E. Hovers

Amud 9, a partial Neandertal foot from late Mousterian of Israel

10:15 Brittingham, A., M. Hren, G. Hartman, K. Wilkinson, C. Mallol, B. Gasparyan, D. Adler

Organic molecular record of fire from Lusakert Cave, Armenia and its implications for fire use in the Middle Paleolithic

10:30 Banks, W., M Moncel, J-P Raynal, J-P Faivre, M-N Woillez

Neanderthal ecological dynamics north of the Pyrenees and west of the Jura/Alps between MIS 5a and MIS 4.

10:45 Pop, C., L. Wilson, C. Browne

Evaluating landscape knowledge and lithic resource selection at the French Middle Palaeolithic site of Bau de l'Aubesier

11:00 Martisius, N., F. Welker, T. Dogand, M. Grote, W. Rendu, S. McPherron, M. Soressi, T.. Steele

Non-destructive ZooMS identification reveals bone tool raw material selection by Neandertals

11:15 Hallett, E.

Taphonomy and zooarchaeology of the vertebrate faunal remains from Middle and Later Stone Age deposits at Contrebandiers Cave, Atlantic Coast, Morocco

11:30 Frahm, E. D. Adler, N. Tushabramishvili

Walking from New York City to Knoxville: Origins of Late Pleistocene obsidian artifacts at Ortvale Klde (Georgia) and increased scales of interaction from the Middle to Upper Palaeolithic

11:45 Morin, E., J. Meier, K. El Guennouni, A-M Moigne, L. Lebreton, L. Rusch  
New evidence for recurrent dietary exploitation of leporids in the Middle and Late Pleistocene of the Northwestern Mediterranean

12:00 Discussion

**Wednesday April 10: 2:00 – 6:15**  
**Picuris/Sandia/Santa Ana Room**

2:00 Tostevin, G. P Škrdla, G. Monnier, E. Boaretto, D. Richter, Glascock, L. Lisa, L. Nejman, A. Prichystal, A. Kurzawska, O. Mlejnek, K. Golubiewski-Davis, S. Porter, J. Jennings, K. Baldwin.  
Macro- and Micro-archaeology in the Middle Danube: the role of Tvarožná X in understanding the Middle to Upper Paleolithic transition

2:15 Beasley, M., J. Lesnik, A Perri  
Cooking, putrefied meat, Fish: What <sup>15</sup>N values might indicate about Upper Paleolithic diet

2:30 Fisher, E., H. Cawthra, I. Esteban, Z. Jacobs, A. Jerardino, C. Miller, F. Neumann, AA Oertle, J. Pargeter, R. Saktura, E. Schefuss, K. Szabo  
Coastal occupation and foraging during the Late Pleistocene and Early Holocene at Waterfall Bluff, eastern Pondoland, South Africa

2:45 Collins, B., J. Wilkins, A. Mdludlu, E. Loftus, L. Gliganic, C. Cordova, R. Pickering, M. Bamford, T. Hodgskiss, C. Ames  
Late Pleistocene archaeology from Grassridge Rockshelter, South Africa, and implications for understanding Southern African behavioral diversity

3:00 Brandt, S., N. Lawres, B. Smith, A. Taffere  
Social memory and persistence of lithic technological strategies in Late Pleistocene Eastern Africa: Implications for interpreting hunter-gatherer lithic technological variability in and out of Africa

3:15 Discussion

3:30 Thompson, J., A. Bertacchi, S. Ambrose, J. McNeil, A. Mackay, J. Cerezo-RomÃn, J. Miller, D. Kennett, E. Gomini-Chindebvu  
First reconstructions of Late Pleistocene paleoenvironments and hunter-gatherer behavior in the Zambezi miombo woodland zone of Malawi

3:45 Patania, I., K. Ranhorn, J. Lewis, S. Porter, D. Colarossi, H. Mashaka, J. Ogutu, C. Tryon  
The geoarchaeological history of Kisesse II Rockshelter, Tanzania

4:00 Yeshurun, R., N. Schneller-Pels, O. Barzilai, I. Hershkovitz, O. Marder

A zooarchaeological test of the two-tradition model in the Early Upper Paleolithic Levant: The Ahmarian and Aurignacian subsistence at Manot Cave, Israel

4:15 Hartman, G., J. Clark, A. Stutz

Reconstructing the hunting ranges at the Early Upper Paleolithic site of Mughr-el-Hamamah, Jordan

4:30 Straus, L., M. Gonzalez-Morales

Analyses of the 'Red Lady' Magdalenian burial in El Miron Cave (Cantabria, Spain)

4:45 Hodgkins, J., C. Gravel-Miguel, J. Riel-Salvatore, C. Orr, D. Strait, M. Peresani, S. Benazzi, G. Pothier Bouchard, D. Meyer, D. Drohobytsky, C. Miller, F. Negrino

A new Upper Paleolithic infant burial from Arma Veirana, Liguria, Italy

5:00 Kitagawa, K., N. Conard

Why the quantum leap? Organic technology of the Aurignacian in the Swabian Jura

5:15 O'Connell, J., J. Allen

The recently reported 65,000-year age estimate for Sahul colonization is unreliable, and why that matters

5:30 Nakazawa, Y.

Technological choices of the Last Glacial Maximum foragers in Hokkaido, Northern Japan: Blade or flake?

5:45 Business meeting