

Paleoanthropology Society
2016 Annual Meeting
April 12, 13
Atlanta Marriot Marquis

Posters

Tuesday, April 12 4:00 – 6:00
Atrium Ballroom

Arif, J.

JA-53, a big fossilized isolated lower incisor from Sangiran, Indonesia.

Barr, W. A.

Signal or noise? Testing hypotheses about faunal turnover with implications for human evolution.

Bastir, M., D. G. Martínez, S. A. Williams, S. Nalla, J. Eyre, M. Oishi, N. Ogihatra, S. E. Churchill, L. Berger and P. Schmidt

Preliminary findings of 3D analyses of the costal remains of Australopithecus sediba.

Bergstrom, K., K. Jenkins, J. Levy, R. J. Velasquez, P. J. Lewis and T. L. Campbell

Computed tomography survey of supernumerary molars in extant orangutans with implications for studies of the primate fossil record.

Boyd, J. R.

Continued research on group locomotion in the Laetoli Trackway: An intriguing case of direct register.

Brennan, E. J., E. K. Boyle and B. Pobiner

Identifying diagnostic criteria of cut marks on experimentally butchered bones: A methodological comparison.

Clark, J., L., A. W. Kandel and R. Shimelmitz

Upper and Epipaleolithic faunal remains from new excavations at Sefunim Cave (Mt. Carmel, Israel): Preliminary results.

Curran, S. C., C. Terhune, A. D. Sylvester, S. Gogol and J. Hubbard

New ecomorphological proxies for paleohabitat reconstructions: Geometric morphometric analyses of cervid joint surface morphology.

Daly, E. S., K. K. Catlett, C. Seyoum, K. S. Paul, S. J. King, M. M. Skinner, H. P. Nesse, J.-J. Hublin, G. C. Townsend, A. R. Evans and G. T. Schwartz

A developmental perspective on the postcanine dental proportions of Homo naledi.

Dumouchel, L.

New insights into the paleoenvironments of Australopithecus anamensis: A multiproxy analysis of the bovids of Allia Bay, Kenya.

Frater, N., S. Martelli, S. Mathews and M. Haeusler

The number of lumbar vertebrae in hominin evolution and the problem of missing segments.

Garcia-Martinez, D., F. Spoor and M. Bastir

3D assessment of rib curvatures in KNM-WT 15000.

Gurto, A

Hominin-carnivore competition at Pleistocene springs.

Johnson, C. L.

Phylogenetic systematics of Oldowan (Mode 1) assemblages.

Keevil, T. L. and M. C. Pante

Characterizing the micromorphology of cut marks inflicted by Oldowan and Acheulean stone technologies using high-resolution 3-D scanning.

Key, A. and S. Lycett

Does handaxe shape strongly influence cutting performance? A large-scale quantitative experiment.

Kibii, J.

Taxonomic and taphonomic analysis of faunal remains from a recently identified fossil deposit at Gondolin, South Africa.

Lazagabaster, I. A. and L. K. Delezene

Intraspecific variability in postcanine occlusal wear in early hominins and the Occlusal Wear Gradient model: preliminary results.

McCarthy, R. C. and M. A. Kunkel

Sutural variability in the hominoid anterior cranial fossa.

Muller, A., C. Clarkson and C. Shipton

An experimental link between stone tool technology and cognitive complexity.

Muttart, M., M. Pante and J. Njau

Quantifying taxonomic distinctions in tooth mark morphology with high-resolution 3-D scanning.

Ortiz, A., S. E. Bailey, M. M. Skinner, and J.-J. Hublin

Homo or Pongo? Taxonomic discrimination of hominoid upper molars based on the internal surface of the mesial marginal ridge.

Pobiner, B., J. Rogers, K. Kovarovic, C. P. Higson and W. Schindler III

An experimental butchery study of the influence of the amount of flesh and butcher expertise on resulting cut marks.

Presnyakova, D., W. Archer, D. R. Braun, J. W. K. Harris and N. J. Conard

Variability in early Acheulean technology in East Turkana, Koobi Fora, Kenya.

Reeves, J. S. and D. R. Braun

Paleolithic site integrity and edge damage: Novel methods of digital microscopy to identify post-depositional processes.

Rowan, J., E. M. Locke, J. R. Robinson, C. J. Campisano, J. G. Wynn and K. E. Reed

Dietary shifts in the giraffid Sivatherium and paleoenvironmental differences between the Afar and Turkana Basins during the late Pliocene.

Swedell, L. and T. Plummer

Multilevel societies and hominin social evolution: Insights from hamadryas baboons.

Terhune, C., C. Robinson and T. Ritzman

Sexual dimorphism in the shape of the extant hominid mandibular ramus.

Towle, I., J. D. Irish and I. De Groot

A comparison of dental attrition and chipping in Homo naledi with other South African hominins.

Wallace, I., J. Shea, S. Zewdie, F. Sisay, Y. Gebru and J. Fleagle

Update on the paleoanthropology of the Kibish Formation, southwestern Ethiopia.

Oral Presentations

Tuesday, April 12 9:00 – 12:15

Room A706/707

9:00 Introduction

9:15 Villamil, C. I.

Orthogrady and foramen magnum orientation: interpreting the fossil record.

9:30 Evans, A. R., E. S. Daly, K. K. Catlett, K. S. Paul, S. J. King, M. M. Skinner, H. P. Nesse, J.-J. Hublin, G. C. Townsend, G. T. Schwartz and J. Jernvall

Evolution of hominin tooth size explained through development-based models.

9:45 Pante, M. C., J. K. Njau, T. Keevil, M. Muttart, R. J. Blumenshine and S. R. Merritt

A quantitative reassessment of feeding trace morphology and implications for the earliest cut marked bones.

10:00 Khreisheh, N. N., F. L. Coolidge and D. Stout

Individual differences in stone tool making aptitude and executive function: Implications for cognitive evolution.

10:15 Carvalho, S. P. G. Mota, R. Marques, D. Biro, D. R. Braun, T. Matsuzawa,

Skill, not kinship, impacts social learning in wild chimpanzee stone tool use: Implications for the Pleistocene archaeological record.

10:30 Discussion

10:45 Braun, D. R., S. Carvalho, R. S. Kaplan, D. Biro and T. Matsuzawa

Chimpanzee tool use involves an understanding of mechanical properties of stones: A comparison with the Oldowan archaeological record.

11:00 Beasley, M., I. Orland, J. Valley, and M. Schoeninger

SIMS reveals diagenesis and seasonal paleoprecipitation: A new method for reconstructing past environments.

11:15 Villaseñor, A.

Variation in habitat heterogeneity within Pliocene East Turkana, Kenya: Defining the mosaic.

11:30 Patterson, D. B., D. R. Braun, R. Bobe, S. B. Lehmann, N. E. Levin, A. K. Behrensmeyer and B. A. Wood

Hominin behavioral landscapes: merging stable isotopes, zooarchaeology and ecometrics for insights into hominin ecology at East Turkana, northern Kenya.

11:45 Haile-Selassie, Y.

Fossil hominins from Woranso-Mille (Central Afar, Ethiopia) and the Middle Pliocene hominin diversity conundrum.

12:00 Discussion

12:15 – 2:00 Student Lightning Talks

**Tuesday, April 12 2:00 – 4:00
Room A706/707**

Note: 6:00 PM (following poster session) Discussion: Preparing for the academic job market

2:00 Meyer, M. R.

New vertebral fossils from the KSD-VP-1/1 *Australopithecus afarensis* skeleton.

2:15 Thompson, J. C., E. Hovers, W. Kimbel and C. W. Marean

New approaches to taphonomy and field survey of fossils across the Hadar paleo-landscape at 3.3 Ma.

2:30 Reed, K. E., C. J. Campisano, I. A. Lazagabaster, E. Locke, J. Robinson and I. E. Smail

Changes in community ecology from 3.4 – 2.0 Ma in the lower Awash valley: Implications for hominin paleobiology.

2:45 Harris, J. A., C. W. Marean, K. E. Reed and J. C. Thompson

An objective Bayesian-based model for identifying bone surface modification and application to the ~2.8 Ma Ledi-Geraru assemblage.

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

A new Late Pliocene Fauna from the Mille-Logya Project Area, Afar Regional State, Ethiopia.

3:15 Quam, R., I. Martínez, M. Rosa, A. Bonmatí, C. Lorenzo, D. J. de Ruiter, J. Moggi-Cecchi,

M. C. Valverde, P. Jarabo, C. Menter, J. F. Thackeray and J. L. Arsuaga
Early hominin auditory capacities.

3:30 Schroer, K. and D. B. Patterson

Character displacement among *Paranthropus*, early *Homo*, and *Theropithecus*:
Reconstructing dietary competition in the fossil hominin record.

3:45 Discussion

Poster Session 4:00 – 6:00

Atrium Ballroom

Wednesday, April 13 9:00 – 12:15

Room A706/707

- 9:00 Rector, A. L., K. E. Reed, T. Matthews, D. Hernandez, S. Meacham and C. Steininger
The large and small mammal communities from Cooper's D and their significance for Paranthropus robustus ecology.
- 9:15 Mathews, S., N. Frater, N. Bonneau and M. Haeusler
Pathologies of skeleton MH2 (Australopithecus sediba).
- 9:30 de Ruiter, D. J., L. R. Berger, J. Hawks, S. E. Churchill, P. Schmid, L. K. Delezene, T. L. Kivell, H. M. Garvin, S. A. Williams, J. M. DeSilva, M. M. Skinner, C. M. Musiba, N. Cameron, T. W. Holliday, W. Harcourt-Smith, R. R. Ackermann, M. Bastir, B. Bogin, D. Bolter, J. K. Brophy, Z. D. Cofran, K. A. Congdon, A. S. Deane, M. Dembo, M. Drapeau, M. C. Elliot, E. M. Feuerriegel, D. Garcia-Martinez, D. J. Green, A. Gurtov, J. D. Irish, A. Kruger, M. F. Laird, D. Marchi, M. R. Meyer, S. Nalla, E. W. Negash, C. M. Orr, D. Radovic, L. Schroeder, J. E. Scott, Z. Throckmorton, M. W. Tocheri, C. VanSickle, C. S. Walker, P. Wei and B. Zipfel,
Homo naledi: A new species of hominin from the Dinaledi Chamber, South Africa.
- 9:45 Egeland, C. P., R. M. Byerly, C. M. Fadem, C. M. Fitzgerald and A. Z. P. Mabulla
Geochemical and physical characterization of potential lithic raw material sources in the Olduvai Basin, Tanzania.
- 10:00 Sahnouni, M., M Duval, J. Pares, J. Van der Made, A. Perez-Gonzalez, S. Abdessadok, Z. Harichane, I. Caceres, A. Derradji, N. Kandi, M. Medig and K. Boulaghraif.
Evidence of stone tools and cutmarked bones from Ain Boucherit Early Pleistocene deposits (2.2-1.95 Ma), Algeria.
- 10:15 Discussion
- 10:30 Semaw, S., M. J. Rogers, I. Cáceres, D. Stout and A. Leiss
The Early Acheulian from Gona, Ethiopia: implications for technological and hominin diet transitions.
- 10:45 Behrensmeyer, A. K., A. Du, A. Villasenor, D. Patterson, B. G. Richmond, K. Hatala and N. T. Roach
Hominins in context - paleogeography and ecology of the Okote Member, Koobi Fora Formation, East Turkana.
- 11:00 Hlubik, S., R. Cutts, D. Braun, F. Berna, J. W. K. Harris, and C. Feibel

Evaluation of fire evidence in the Early Pleistocene at FxJ20 AB, Koobi Fora, Northern Kenya.

11:15 Lague, M. R., M. G. Leakey, L. Leakey, W. L. Jungers
New hominin fossil humeri from Koobi Fora: implications for Homo erectus (sensu lato) origins and diversity.

11:30 Mercader, J., R. Patalano, J. Favreau, M. Itambu, J. Kumbani and H. Marufu,
Acheulian Assemblages between the Limpopo and Zambezi: The origins of prepared core technology at Maunganidze (Manicaland, Zimbabwe).

11:45 Fornai, C., S. Benazzi, G. Avi, B. Ran, S. Rachel, F. L. Bookstein., I. Hershkovitz and G. Weber
A comprehensive morphological investigation of the Qesem Cave lower second deciduous molar dm2-QC2.

12:00 Discussion

Wednesday, April 13 2:00 – 6:00

Room A706/707

2:00 Harvati, K., E. Panagopoulou, V. Tourloukis, N. Thompson, P. Karkanas, A. Athanassiou, G. Konidaris, G. Tsartsidou and D. Giusti
New Middle Pleistocene elephant butchering site from Greece.

2:15 Blackwell, B. A. B, I. Singh, K. G. Krishna, K. K. Chen, N. Sakhrani, V. Tourloukis, P. Karkanas, J.A. Florentin, J.I.B. Blickstein, E. Panagopoulou, K. Harvati and A.R. Skinner
ESR dating the fossil-bearing Layers at the Marathousa 1 Site, Megalopolis, Greece.

2:30 Blegen, N., F. Brown, K. Binetti, J. T. Faith, J. Ferraro, J. Richardson and C. Tryon
Correlation of widespread Late Pleistocene volcanic ash layers from six basins across Kenya and their relevance to Middle Stone Age chronology.

2:45 Simonyan, H. , A. Yaroshevich, D. P. Miggins, C. M. Stevenson, A. K. Rogers and M. Belmaker
Handaxes, blades and Levallois items of obsidian: preliminary results of an archaeological survey and subsequent test excavations in the Syunik province, Armenian Highlands.

3:00 Ambrose, S. H. and J. Hirbo,
Is Neanderthal-human genetic admixture in Eurasians actually African ancestry?

3:15 Discussion

3:30 Collard, M., K. Vaesen, R. Cosgrove and W. Roebroeks

The empirical case against the “demographic turn” in Palaeolithic archaeology.

- 3:45 Stutz, A. J., R. M. Albert, M. Alonso-Eguíluz, T. Arpin, E. Asouti, J. J. Shea and L. G. Nilsson Stutz
Depositional context of the Early Upper Paleolithic occupation (45-39 ka) at Mughr el-Hamamah, Jordan: Implications for tracing behavioral change across the Middle-Upper Paleolithic transition.
- 4:00 Shea, J. J
The lithic assemblage from Mughr el-Hamameh, Jordan, (39-45 ka cal BP).
- 4:15 Riel-Salvatore, J., F. Negrino, C. Gravel-Miguel, A. Laliberté and G. P. Bouchard
New excavations in the Proto-Aurignacian deposits at Riparo Bombrini, Italy: Results of the 2015 field season.
- 4:30 Willman, J. C.
Labret use among the Gravettian peoples of Central Europe and the Russian Plain: Dynamic social identities in the Mid Upper Paleolithic.
- 4:45 Louys, J., S. C. Samper Carro, S. O'Connor, D. G. Questiaux, N. A. Spooner, L. Arnold and G. J. Price
Human biogeography in the Lesser Sunda Islands: Implications of recently uncovered Pleistocene skeletal material from Alor, Indonesia.
- 5:00 Donahue, R. E., A. A. Evans, L. Leakey, C. J. Lintott, A. S. Wilson, R. Davis, T. Sparrow and R. Harman
Augmenting paleoanthropological field research: A high resolution imaging system and Citizen Science.
- 5:15 Discussion
- 5:30 Business meeting