

**Program**  
Paleoanthropology Society  
March 27 and 28, 2007  
Philadelphia, PA

**Poster Session**

**Tuesday, March 27 4:15 – 6:30**

Ashley, G. and J. Tactikos

Hominin use of springs and a groundwater-fed wetland: The archaeological record from Olduvai Gorge, Tanzania (1.80-1.75 Ma)

Been, E.

The lumbar spine of Kebara 2

Belmaker, M., S. Nelson, M. Morgan, L. Flynn, J. Barry, D. Pilbeam and C. Badgley  
Dietary reconstructions of the Middle and Late Miocene ungulate communities in the Siwaliks, Pakistan

Beyin, A. and G. Woldu

Preliminary results from Paleolithic sites on the Red Sea Coast of Eritrea

Bishop, L., L. Barham, S. Elton, P. Ditchfield and J. Ohman

Fossil fauna from the Luangwa Valley, Zambia

Blackwell, B., A. Montoya, M. Bisson, A. Skinner and P. Beelitz

ESR dates for the Neanderthal layer at la Ferrassie, France

Bobe, R., D. Geraads, D. Reed, Z. Alemseged and J. Wynn

Faunal context of the Pliocene Dikika locality, Hadar Formation, Ethiopia

Caspari, R. J. Meganck, J. DeSilva, J. Radovicic and S. Goldstein

Assessing adult age at death in Neandertal dental remains: Preliminary applications of a new approach using three dimensional micro computed tomography

Crevecoeur, L. and S. Villotte

The Nalzet Khater 2 paleopathologies. Correlation with mining activities during the Early Upper Paleolithic in Egypt

Curran, S.

Hominin paleoecology and cervid ecomorphology

DeGusta, D.

Can carnivore taxonomic identity be inferred from toothmarks? The case of Swartkrans Member 3

Froehle, A.

Environmental and methodological influences on daily energy expenditure in early

modern *Homo sapiens*

Harmon, E., M. Drapeau, E. Hovers and C. Campisano  
Hominin occupation of the Bala Paleoanthropological Research Area, southern Ethiopia

Holliday, T., V. Hutchinson, F. Almeida, T. Pereira, D. Angelucci and J. Zilhao  
Abrigo do Alecrim: A New Upper Paleolithic site in the Lapedo Valley (Portugal)  
Jeusel, E. and B. Mafart  
Morphological evolution of the bony palate of hominid fossils

King, K.  
Digastric origin morphology and non-masticatory tooth use in the Native Point Saldermuit: implications for a possible Neanderthal autapomorphy

Lepre, C., R. Quinn and C. Feibel  
Paleomagnetic stratigraphy and astronomic-age divisions for the Olduvai Subcron in the northern Turkana Basin (Kenya)

Lucas, L. and R. McCarthy  
Temporalis configuration and morphological integration in Middle Pleistocene hominids

Lycett, S.  
Is the Soanian a Middle Paleolithic industry? A morphometric assessment

MacLatchy, L. and J. Rossie  
The mandible and lower dentition of *Morotopithecus bishopi*

McCall, G.  
Examining the emergence of the Stillbay and Howiesons Poort industries in South Africa using behavioral ecological models

McCarthy, R. L. Lucas, M. Holmes and K. O'Donnell  
The taxonomic status of early *Homo sapiens* from Herto, Ethiopia

Melillo, S. and D. DeGusta  
Bovid ecomorphology: A cautionary tale from the Omo

Mohapi, M.  
A new angle on Middle Stone Age hunting technology in South Africa

Niven, L.  
The Early Upper Palaeolithic occupation of Vogelherd Cave (Germany): Human subsistence and cultural innovation during the Aurignacian

Norton, C. and X. Gao  
Bone surface modification studies: Taphonomic perspectives from Middle-Late Pleistocene Xujiayao, China

Olszewski, D., H. Dibble, S. McPherron, J. Smith, L. Chiotti and U. Schurmans  
Middle Paleolithic settlement in the Egyptian High Desert: preliminary results

Pearson, O. A. Reeves and T. Petersen  
Multivariate analysis of the postcranium of Markini Gora (Kostenki XIV), a 30,000  
year old skeleton from Russia

Plummer, T., J. Oliver, C. Delaney-Rivera, F. Hertel, F. Forrest and J. Hodgson  
Expanding the taxonomic range of omnivores and carnivores in feeding experiments  
and the application of actualistic tooth mark data to zooarcheological analysis

Pollarolo, L., J. Wilkins and K. Kuman  
Interpreting a MSA-EAS open-air stratified site at Kudu Koppie, Limpopo Province,  
South Africa

Quinn, R., C. Feibel, C. Lepre and J. Wright  
Variability in East African hominin environments: Isotopic evidence from lacustrine  
ostracods in the Koobi Fora and Galana Boi Formations, Turkana Basin, northern  
Kenya

Quintard, A., B. Maureille, A.-M. Tillier, A. Turq and A. Morala  
New Middle Paleolithic human remains from Las Pelenos (Monsempron-Libos,  
France)

Riel-Salvatore, J. and L. Pyne  
Hominin niche construction and the Middle-Upper Paleolithic transition in Italy

Sarmiento, E.  
Explaining the “exclusively bipedal” characters of australopithecines and their  
significance in hominid classification

Schnell, A. C. Egeland, H. Bunn and T. Pickering  
Zooarchaeological distinction of felids and hyenids: implications for models of early  
hominid carcass foraging

Sherwood, R., D. Duren, J. Blangero, J. Subedi, R. Shrestha, B. Jha, B. Towne and S.  
Williams-Blangero  
Genetic influence and integration of dental traits

Smith, H.  
Relative genetic distances among early human fossils as indicated by 3D morphology  
of the temporal bone

Smith, R.  
An individual-based, comparative advantage model for examining the potential  
benefits of economic specialization in Neanderthal and early modern Human Societies

Smith, T., A. Olejniczak, D. Reid, J.-J. Hublin and M. Toussaint  
Dental development, enamel thickness and age at death in the Scladina Cave Belgian  
Neanderthal

Soderberg, J., M. Tappen and A. Armstrong  
Using 3D modeling to differentiate between notches Produced by hammerstone  
percussion and carnivore gnawing

Steudel-Numbers, K. and C. Wall-Scheffler  
Is there an optimal speed of human running?

Tryon, C., N. Roach and A. Logan  
The archaeological potential of the northern Kenyan Rift Valley: New Middle Stone  
Age sites from the Kapedo Beds.

Wilkins, J.  
Earlier and Middle Stone Age prepared core reduction strategies at Kudu Koppie,  
northern South Africa

Villotte, S., D. Henry-Gambier, P. Murail and J. Bruzek  
Population specific tools for sex diagnosis of Upper Paleolithic and Mesolithic  
Hominids from Europe

### Oral Presentations

**Tuesday, March 27 9:00 – 12:30**

9:00 Introduction

9:15 Kuykendall, K.L. and T.C. Rae  
Presence of the maxillary sinus in the fossil colobine *Cercopithecoides williamsi*  
from South Africa: an assessment using computed tomography.

9:30 Morin, E.  
Ungulate species abundance and human population densities during the Middle  
to Upper Paleolithic transition in Western Europe: The population bottleneck  
model

9:45 Steenhuyse, A.  
Continuity and change in technological and economic strategies during the  
Middle and Upper Paleolithic in the Brive basin region of southwestern France

10:00 Gruss, L., M. Cartmill and D. Schmitt  
Pelvic rotation and walking speed in Homo and Australopithecus.

10:15

10:30 Discussion

- 10:45 Wynn, J., Z. Alemseged, R. Bobe, D. Geraads, D. Reed and D. Roman  
Geological and tectonic framework for the 3.8-0.6 Ma Dikika Research  
Project area, and its implications for the study of the paleoenvironments of  
human evolution in the Afar Depression, Ethiopia.
- 11:00 Reed, D., Z. Alemseged, R. Bobe, D. Geraads, S. McPherron and J. Wynn  
Taphonomy and local paleoecology of the juvenile hominin from DIK-1,  
Ethiopia
- 11:15 Alemseged, Z., F. Spoor, W. Kimbell, R. Bobe, D. Geraads, D. Reed and  
J. Wynn  
Paleoanthropological research at Dikika, Ethiopia and comparative  
morphology of the a juvenile hominin from DIK-1
- 11:30 Rogers, M. and S. Semaw  
From nothing to something: The earliest appearance of the archaeological  
record
- 11:45 Campisano, C. and K. Reed  
Spatial and temporal patterns of *Australopithecus afarensis* habitats at Hadar,  
Ethiopia
- 12:00 Olejniczak, A., T. Smith, M. Skinner, F. Grine, R. Feeney, F. Thackeray and  
J.-J. Hublin  
Molar tissue volumes and enamel thickness in South African fossil  
hominins.
- 12:15 Discussion

**Tuesday, March 27 2:00 – 4:15**

- 2:00 Lee-Thorp, J., M. Sponheimer, D. de Ruiter and A. Spath  
Comparing landscape use by australopith species using high resolution  
strontium isotope ratio tracking in tooth enamel
- 2:15 Feibel, C., C. Lepre and R. Quinn  
Integrated stratigraphic approaches: Evolving perspectives on time, facies, and  
paleoenvironmental systems in the Plio-Pleistocene of the Turkana Basin, East  
Africa
- 2:30 Braun, D., J. Harris, N. Levin, J. McCoy, M. Bamford, L. Bishop and  
M. Kibunjia  
Oldowan behavior and paleoecology: Analysis and excavations from FwJj20, Il  
Dura, Kenya
- 2:45 Njau, J. and R. Blumenschine  
Crocodilian predation risk for Plio-Pleistocene hominins at Olduvai Gorge,  
Tanzania

3:00 Discussion

3:15 Pruetz, J. and P. Bertolani

Chimpanzee (*Pan troglodytes verus*) behavioral responses to stresses associated with living in a savanna-mosaic environment: Implications for hominin adaptations to open habitats.

3:30 Aiello, L.

Diet, energy and evolution

3:45 Snodgrass, J.

Neandertal energetics revisited: Insights into population dynamics and life history evolution

4:00 Discussion

**4:15 – 6:30 Poster Session**

**Wednesday, March 28 8:30 – 12:30**

8:30 Hayden, B.

What was going on in the Oldowan? An ethnoarchaeological perspective

8:45 Oliver, J.

New analyses of hominin- and carnivore-induced damage in the FLK-Zinj faunal assemblage: Concordance, conflicts and remaining interpretative differences

9:00 Bunn, H.

Ungulate mortality patterns at FLK Zinj and their behavioral implications

9:15 Faith, J., M. Dominguez-Rodrigo and A. Gordon

Long distance carcass transport at Olduvai Gorge?

9:30 Dominguez-Rodrigo, M. and C. Egeland

A new investigation of the taphonomy and zooarchaeology of Bed II Olduvai Gorge, Tanzania

9:45 Van Arsdale, A. and D. Lordkipanidze

Comparative anatomy of the hominid mandibles from Dmanisi, Georgia

10:00 Haile-Selassie, Y., B. Latimer, A. Deino, B. Saylor and M. Umer

The Mille-Chifra-Kasagita Triangle: A new hominid-bearing early Pliocene site in the Central Afar region of Ethiopia

10:15 Kramer, A. and A. Durband

Hominid species number at Sangiran: A randomization test of the dental

evidence

- 10:30 Kaifu, Y., F. Aziz, E. Indriati, T. Jacob and H. Baba  
Evolutionary history of Javanese *Homo erectus*: An examination based on revised and new cranial measurements
- 10:45 K. Baab, K. McNulty and P. Brown  
Allometric scaling of craniofacial shape: Implications for the Liang Bua hominins
- 11:00 Tocheri, M., W. Jungers, S. Larson, C. Orr, T. Sutikna, Jatmiko, E. Saptomo, R. Due, T. Djubiantono and M. Morwood,  
Morphological affinities of the wrist of *Homo floresiensis*
- 11:15 Martinez, I., J.-L. Arsuaga, R. Quam, J.-M. Carretero and A. Gracia  
Two Middle Pleistocene human hyoid bones from Sima de los Huesos site (Sierra de Atapuerca, Spain)
- 11:30 Guipert, G., B. Mafart, M.-A. de Lumley  
Virtual restoration of the fossil Arago 21-47 and phyletic position
- 11:45 Cohen, A., C. Scholz, T. Johnson, J. King, K. Beuning, J. Stone, M. Talbot and E. Brown  
Drill core records of early Late Pleistocene Megadrought in tropical Africa: Ecological consequences and implications for early modern human demography
- 12:00 Brooks, A., J. Yellen, K. Behrensmeier, A. Deino, W. Sharp and R. Potts  
After the Acheulean: stratigraphy, dating and archeology of two new formations in the Olorgesailie basin, southern Kenya Rift

12:15 Discussion

**Wednesday, March 28 2:00 – 6:30**

- 2:00 Soressi, M. and P. Villa  
Hunting technologies in the Middle Stone Age of South Africa: from the Stillbay to the post-Howiesons Poort.
- 2:15 Hardy, B.  
Not by meat alone: The potential role of underground storage organs in Neanderthal diet
- 2:30 Weaver, T. and J.-J. Hublin  
First look at a Neandertal birth canal
- 2:45 Quam, R. and Y. Rak  
New auditory ossicles from southwest Asian Mousterian sites

- 3:00 Rak, Y., and W. Hylander  
The functional significance of retromolar space in the Neanderthal mandible
- 3:15 Biglari, F., S. Shidrang, M. Javeri and M. Yazdi  
Qaleh Bozi: A Middle Paleolithic Industry with bifacial tools from central Iran
- 3:30 Discussion
- 3:45 Skinner, A., B. Blackwell, R. Long, M.R. Seronie-Vivien, A.-M. Tillier and J. Blickstein  
New ESR dates for a new bone-bearing layer at Pradayrol, Lot, France
- 4:00 Mann, A., C. Beauval, L. Bourguignon, J.-G. Bordes, S. Costamagno, I. Couchoud, J. Fauquignon, E.-M. Geigl, P. Guibert, R. Grun, F. Lacrampe-Cuyaubere, V. Laroulandie, J.-C. Marquet, L. Meignen, M. Nicolot, W. Rendu, G. Seguin, J.-P. Texier, B. Vandermeersch and B. Maureille  
Absolute AMS 14C dates from the Mousterian occupation of Les Pradelles (Marillac-le-Franc, Charente, France).
- 4:15 Hublin, J.-J., K. Harvati, P. Gunz, and A. Ben-Ncer  
A re-assessment of the Jebel Irhoud (Morocco) Mousterian adult cranial Remains
- 4:30 Teschler-Nicola, M. T. Einwoegerer, M. Handel, C. Neugebauer-Maresch and U. Simon  
The Gravettian infant burials from Krems-Wachtberg, Austria
- 4:45 Harvati, K., P. Gunz and D. Grigorescu  
The partial cranium from Cioclovina, Romania: morphological affinities of an early modern European
- 5:00 Henry, A. D. Piperno and A. Brooks  
Reconstructing human diet from plant microfossils preserved in dental calculus: a case study from Tell al-Raqa'i, Syria
- 5:15 Discussion
- 5:30 – 6:30 Business meeting





