

# PALEOANTHROPOLOGY SOCIETY

2010 ANNUAL MEETING

ST. LOUIS MISSOURI

## PROGRAM

### Posters

(The poster session will be held Tuesday, April 13, 4:00 – 6:15 in Landmark 1)

Almeida, F, H. Matias, R. Carvalho, T. Pereira, A. Pinto and T. Holliday  
New data on the transition from the Gravettian to the Solutrean in Portuguese Estremadura

Belmaker, M. and P. Unger  
Micromammal microwear texture analysis – preliminary results and applications for paleoecological study

Bernal, K. and A. Brooks  
Ex Africa semper aliquid novi: implications of the early emergence of Levallois technology in Africa

Bicho, N., T. Manne, J. Marreiros, J. Cascalheira, F. Tata, J. Gibaja and M. Evora  
On the edge: the Upper Paleolithic from Vale Boi, Algarve, Portugal and the arrival of the first modern humans to Southwestern Iberia

Bortoluzzi, S, S. Boccone and J. Moggi-Cecchi  
Morphological variability of the deciduous dentition in living and early fossil hominins. The first molar

Bousman, B., J. Brink, S. Tooth, L. Rossouw, L. Scott, R., Grun, and S. Barnett  
Middle and Later Stone Age occupations dating to Marine Isotope Stage 3 and 4 at Erfkroon, South Africa

Bradtmoller, M, M. Kehl, K. Reicherter, A. Vott and G. C. Weniger  
Continuity or discontinuity? Patterns of land use and climatic changes in the Late Pleistocene of the Iberian Peninsula

Burdukiewicz, J.  
Lower Paleolithic adaptations in Eurasia: handaxe and microlithic zones

Carter, K. and S. Worthington  
Mixed signals in the dentition: assessing the contribution of phylogeny, taxonomy and allometry in determining molar shape

Cascalheira, J., J. Marreiros and M. Evora  
From Gravettian to Solutrean in Southwestern Iberia: a technological perspective

Chu, W.

The use of dwellings during the Middle Paleolithic in Northern Europe

Conard, N.

Music and figurative art in the Swabian Aurignacian

Davis, S. and H. Dunsworth

From rhomboid to rectangle: virtual wear of early Homo molars

Jenkins, K. and H. Dunsworth

Predation on Proconsul at the Kaswanga Primate Site on Rusinga Island, Kenya

Egeland, C., B. Gasparian, D. Arakelyan, R. Byerly, R. Ghukasyan and C. Nicholson

New data on the Paleolithic settlement of the Lori Depression, northern Armenia

Enloe, J. and F. David

Chatelperronian at the Grotte du Bison, Arcy-sur-Cure: stratigraphic correlations and spatial organization

Estebananz, F., L. Martinez and A. Perez-Perez

Buccal dental microwear signals in the gracile australopithecines *A. anamensis*, *A. afarensis* and *A. africanus*: adaptations to open environments with climatic shift

Forrest, F., S. Blumenthal, T. Plummer, L. Bishop, F. Hertel and T. Harrison

Ecomorphological analysis of the bovid distal humerus and mandible, with application to Pliocene hominin paleoecology at Laetoli, Tanzania

Goble, E.

Does size matter? Paleoecological reconstruction of sites in the Chemeron Formation, Tugen Hills, Kenya

Gravel-Miguel, C. and J. Riel-Salvatore

A quantitative analysis of beads in Gravettian burials

Hatala, K., A. Brooks and J. Yellen

Variation in the production and use of scrapers during the Middle Stone Age: evidence from Olorgesailie, Kenya and Aduma, Ethiopia

Haws, J., C. Funk, M. Benedetti, N. Bicho, M. Daniels, T. Minckley and S. Forman

Late Quaternary landscapes and seascapes of Portuguese Estremadura: Middle and Upper Paleolithic settlement

Jagich, A., L. Kindler, S. Gaudzinski-Windheuser, W. Roebroeks, C. Bakels, H. Mucher and M. Sier

Defining spatial and temporal resolution at the Middle Paleolithic site of Neumark-Nord 2 (Saxony-Anhalt, Germany): Preliminary results and perspectives for future research

Lebrun, R., M. Ponce de Leon, P. Tafforeau and C. Zollikofer  
Comparative labyrinthine morphology of Eocene omyid primates

Levkovskaya, G., V. Liubin and Y. Belyaeva  
New data on paleoenvironments and plant gathering of Neanderthals from Barakayevskaya and Monasheskaya Cave Sites, Northern Caucasus (the results of SEM pollen and paleobotanical study of layers with anthropological remains)

Lupo, A. and R. McCarthy  
Neanderthal reproduction, fertility and life history

Lycett, S. and C. Norton  
Shedding light on the Movius Line controversy: metric comparisons of handaxes from the east and west

Martinez, L. F. Estebanz and A. Perez-Parez  
Buccal dental microwear signals in the robust australopithecines *P. aethiopicus*, *P. robustus* and *P. boisei*: the low microwear density paradox revealed

McCall, G., J. Thomas, S. Horn, M. Sanders and K. Kettler  
Erb Tanks: a Middle Stone Age rockshelter in the Central Namib Desert, Western Namibia

Monnier, G. and J. Ladwig  
Lithic residue analysis: a comparison of imaging techniques

Muteti, S., S. Lacy and E. Trinkaus  
Mosaic morphology in a mandible and maxilla from Loiyangalani, southeastern shore of Lake Turkana, northern Kenya

Newlander, K. and J. Clark  
One size doesn't fit all? Modeling technological change in the Middle Stone Age of southern Africa

Perez-Perez, A., L. Martinez and F. Estebanz  
Hominin transition from closed forest to open environment: the evidence from buccal dental microwear analyses

Phoca-Cosmetatou, N, P. Boscato and A. Ronchitelli  
The Adriatic plain as a Last Glacial Maximum refugium: the view from Grotta Paglicci (Italy)

Pobiner, B.  
New actualistic data on the ecology and energetics of scavenging opportunities

Prassack, K. and R. Blumenschine  
Late Pliocene avifauna from the Zinjanthropus land surface, Olduvai Gorge, Tanzania

Rector, A.

Carnivores and modern humans as accumulators: interpreting prey selection and changing subsistence strategies through time in the Western Cape, South Africa

Robinson, C. and M. Belmaker

The biogeography of *Giraffa* sp. in the Southern Levant and the implications for 'Out of Africa'

Salazar-Garcia, D., M. Richards and V. Villaverde

Strontium isotope evidence of the mobility patterns of Eastern Iberian Neanderthals

Schoville, B., K. Brown and E. Otarola-Castillo

Modeling Middle Stone Age lithic discard due to impact fractures using experimental data from a calibrated crossbow, Pinnacle Point, South Africa

Shipton, C. and M. Petraglia

Hominin see, hominin do: an experimental reconstruction of Acheulean imitation

Slizewski, A., M. Bradtmoller, J. Graefe, A. Pastoors and G.-C. Weniger

NESPOS. Pleistocene people and places

Susman, R., B. Patel and M. Francis

Ontogenetic age and taxonomic status of the OH8 foot from Olduvai Gorge

Thompson, J.

The Malawi Earlier-Middle Stone Age project: preliminary results of 2009 fieldwork

Turq, A and M. Jarry

The definition, variability and limits of the Mousterian of Acheulean Tradition in the Aquitaine Basin (France)

Von Cramon-Taubadel, N.

The relative efficacy of developmental and functional cranial modules for reconstructing global human population history

Wales, N. A fresh perspective on Neanderthal clothing: inferring Pleistocene attire using modern analogues

Willman, J. and R. Franciscus

Scapular axillary border sulcus variation in recent modern humans and Neanderthals: a cross-sectional metric approach

Worthington, S.

Endo- and ectocranial covariation in Pongo: implications for fossil hominoid cranial integration

Zipkin, A., E. M. Williams, A. Brooks and B. Richmond

Digging stick use and hand biomechanics

**Tuesday, April 13 9:00 – 12:30**

(Landmark 2/3)

9:00 Introduction

9:15 Otarola-Castillo, E., B. Schoville and D. Adams

Integrating quantitative and qualitative data in multivariate analyses

9:30 Williams, E.M. and B. Richmond

Hand pressure distribution during stone tool production

9:45 Ponce de Leon, M., K. Rosenberg, Z. Lu and C. Zollikofer

Reconstructing the evolution of birth mechanisms in Homo from combined maternal-neonatal fossil evidence

10:00 Harmand, S., H. Roche, C. Feibel and A. Lenoble

Nasure 1, a new 2.3 Ma site in the Nachukui Formation, West Turkana, Kenya

10:15 Discussion

10:30 Braun, D., J. Sealy, J. Thompson and J. Harris

Insights into social learning from variation in Oldowan tool production

10:45 McCoy, J.

New archaeological occurrences from Upper Burgi Member exposures at Koobi Fora, Kenya: implications for evolving hominin diet and foraging behavior

11:00 Musiba, C., C. Magori, L. Luque, S. Rubin, J. Carpio, B. Williams, S. Killindo, P. Abwalo, A. Whyte, C. Finger and S. Corporale

Newly discovered

hominin remains from Upper Laetolil Beds in northern Tanzania

11:15 Berger, L., D. de Ruiter, S. Churchill, P. Schmidt, K. Carlson, J. Kibii, P. Dirks

Two new hominin partial skeletons from the Malapa site, South Africa

11:30 de Ruiter, D., S. Churchill, L. Berger, P. Schmidt, K. Carlson, J. Kibii and P. Dirks

A new species of early hominin from South Africa

11:45 Andre, C. A. Skinner, H. Schwarcz, C. Brain and F. Thackeray

Further exploration of the first use of fire

12:00 Hovers, E. Goder-Goldberger, M. and R. Ekshtain

An Oldowan-Acheulian interface? A view from the Burahin Dora area, Hadar, Ethiopia

12:15 Discussion

**Tuesday, April 13 2:00 – 6:15**

2:00 Njau, J. and R. Blumenschine

Hominin predation hazards from carnivores on the FLK Zinjanthropus and FLKNN OH7/OH8 landscapes, Olduvai Gorge

2:15 Diez-Martin, F., P. Sanchez, M. Dominguez-Rodrigo, A. Mabulla, H. Bunn, R. Barba and E. Baquedano

A new lithic collection from FLK North Bed I (Olduvai Gorge, Tanzania): reconstructing operational sequences and hominin activities

2:30 McHenry, L.

Developing a tephrostratigraphic framework for the Oldowan-Acheulean transition in Bed II, Olduvai Gorge, Tanzania

2:45 Zollikofer, C. and M. Ponce de Leon

The first Europeans outside Africa: paleoindividuals, paleopopulations and paleospecies

3:00 Discussion

3:15 Margvelashvili, A., M. Ponce de Leon, T. Peltomaki, D. Lordkipanidze and C. Zollikofer

Dentognathic variation in the Dmanisi hominins: effects of pathology and age-related compensatory mechanisms

3:30 Stringer, C.

The Ancient Human Occupation of Britain (AHOB) projects: a progress report

3:45 Serangeli, J., U. Böhner, T. van Kolfschoten, W. Schoch, J. Lang, G. Bigga, C. Miller and N. Conard  
New organic artifacts from the 2008-2009 excavations in Schöningen (Lower Saxony, Germany)

4:00 – 6:15 Poster Session (Landmark 1)

**Wednesday, April 14 8:30 – 12:30**

8:30 Barkai, R. and O. Marder

The Acheulian origins of Levallois technology: a view from Revadim, Israel

8:45 Shen, C. X. Gao and X. Zhang

Stone tool use-wear evidence and the implications of cognitive development of Peking Man *Homo erectus* at the Zhoukoudian Locality 1

9:00 Indriati, E, C. Swisher III, C. Lepre, R. Quinn, R. Suriyanto, A. Hascaryo, C. Feibel, B. Probiner and S. Anton

The age of the 20 meter Solo River Terrace, Ngandong (Java, Indonesia) reconsidered

9:15 Huffman, O., J. de Vos, A. Balzeau, A. Berkhout and B. Voight

Mass death and lahars in the taphonomy of the Ngandong Homo erectus bone bed, and volcanism in the hominin record of eastern Java

9:30 Weinstein-Evron, M., Y. Zaidner, A. Tsatskin, R. Shahack-Gross, S. Weiner, A. Frumkin and R. Yeshurun

The Early Middle Paleolithic of Misliya Cave, Mount Carmel, Israel

9:45 Discussion

10:00 Haradon, C.

Environmental context of the Acheulean to Middle Stone Age transition: a regional comparison between East and southern Africa

10:15 Fisher, E. M. Bar-Mathews, A. Jerardino and C. Marean

Mid15e and Late Pleistocene paleoscape modeling along the southern coast of South Africa

10:30 Brown, K. and C. Marean

Wood fuel availability for heat treatment drives the rise and fall of silcrete as a raw material in the Middle Stone Age of South Africa

10:45 Miller, C., P. Goldberg, G. Porraz, J. Parkington and P.-J. Texier

A micromorphological perspective on the anthropogenic deposits of the Howiesons Poort occupation of Diepkloof Rock Shelter, Western Cape, South Africa

11:00 Texier, P.-J., G. Porraz, J.-P. Rigaud and J. Parkington

Engraving patterns of ostrich eggshell containers in the Howiesons Poort from Diepkloof Rock Shelter (South Africa): a 60 ky old graphic tradition

11:15 Tryon, C., T. Faith, D. Peppe, D. Fox, K. McNulty, K. Jenkins and N. Garrett

Paleoenvironmental context for Middle Stone Age hominins in Equatorial Africa: the Pleistocene Wasiriya Beds of Rusinga Island (Kenya)

11:30 Ambrose, S. and A. Deino

Technological diversity and geochronology of Middle Stone Age industries in the central Rift Valley, Kenya: implications for the evolution of modern human behavior

11:45 Brandt, S., E. Fisher, E. Hildebrand and H. Wang

Archaeological and paleoenvironmental implications of >40 ka charcoal radiocarbon dates from Moche Borago, Ethiopia

12:00 Slimak, L., J. Lewis, E. Cregut-Bonnoure, L. Metz, V. Ollivier, P. Andre and J. Chzrazvez The OIS 5e Middle Paleolithic site of Le Grand Abri aux Puces (Vaucluse, France): paleogeography, paleoenvironment and initial results of new excavations

12:15 Discussion

**Wednesday, April 14 2:00 – 6:30**

2:00 Richter, D., H. Dibble, P. Goldberg, S. McPherron, L. Niven, D. Sandgathe, K. Trebault  
New chronometric data for Pech de l'Aze IV and its place in the Middle Paleolithic of south-western France

2:15 Verna, C., V. Grimes, M. Toussaint, J.-J. Hublin and M. Richards  
Tracing Neanderthal movement and mobility using strontium isotope analysis: case studies from Belgium

2:30 Rendu, W. and A. Delagnes  
Shifts in Neanderthal mobility: Mousterian technological and subsistence strategies in western France

2:45 Kindler, L.  
Later Pleistocene Neanderthal land use, territoriality and interspecific competition in Central Europe: a view into the Balve Cave (North Rhine-Westphalia, Germany)

3:00 Jaubert, J., B. Maureille and A. Turq  
A stratigraphic and chronological revision of Neanderthal burials in Western Europe: chronicle of a long-awaited aging

3:15 Mellars, P.  
The modern human colonization of India: an evaluation of two alternative models

3:30 O'Connell, J.  
How and why was Sahul colonized so rapidly? Why did the material record change so slowly over such a long period thereafter? Explanatory hypotheses from foraging theory and preliminary tests

3:45 French, J. and P. Mellars  
Archaeological evidence for an order-of-magnitude increase in population numbers across the Neanderthal-to-anatomically modern human transition in Western Europe

4:00 Discussion

4:15 Weniger, G.-C., M. Bradtmoller, A. Pastoors and B. Weninger  
The repeated replacement model: rapid climate change and population dynamics in Upper Pleistocene Europe



4:30 Zilhao, J., A. Pike, T. Higham, K. Douka and R. Wood

Refining the chronology of the Middle-to-Upper Paleolithic transition in the Iberian Peninsula

4:45 Nigst, P.

The Early Upper Paleolithic of the Middle Danube region: modern human dispersal or local evolution?

5:00 Szmíd, C., L. Brou and L. Jaccottey

Direct radiocarbon (AMS) dating of split-base points from the Protoaurignacian of Trou de la Mere Clochette, Northeastern France. Implications for the timing of technical innovation in Europe and the characterization of Early Upper Paleolithic technocomplexes

5:15 Joris, L. L. Moreau, N. Hesse, A. Verpoorte, S. Gaudzinski-Windheuser, U. Hambach, T. Higham, D. Richter, H. Meller

Spatial behavior in the Aurignacian: new excavations at Breitenbach, Germany

5:30 Riel-Salvatore, J. G. Boschian, V. Formicola, R. Maggi, G. Martino and S. Rossi A revised chrono-stratigraphy for the Paleolithic sequence of Caverna delle Arene Candide (Liguria, Italy)

5:45 Discussion

6:00 - 6:30 Business Meeting