

**Paleoanthropology Society
2013 Annual Meeting**

April 2, 3

Hilton Hawaiian Village Beach Resort and Spa
Mid-Pacific Conference Center (located within hotel grounds)

Posters

Tuesday, April 2 4:00 – 6:00

Coral Lounge

Ames, C. A. Nowell, C. Cordova, M. Bisson and J. Pokines
Paleoenvironments and settlement dynamics at the Fruze Marsh Paleolithic site in northeast Jordan.

Bennett, T.
Long-term continuity in Middle Stone Age lithic technology from Niassa, Mozambique.

Blackwell, B., A. Skinner, A. Huang, K. Chen, M. Kleindienst and J. Smith
ESR dating herbivore teeth and snails at Dakhleh Oasis: testing the potential for hominins in Egypt's Western Desert.

Clark, A.
Spatial Organization within open air Middle Paleolithic sites in France.

Collins, B.
Results from a taphonomic study of the final Middle Stone Age occupation at Sibudu Cave, South Africa.

Costa, A.
Rethinking a Pleistocene passage to India: new lithic evidence of hominin presence within a key South Asian coastal corridor since the Last Interglacial.

Crassard, R., M. Petraglia, N. Drake, B. Gratuze and A. Alsharekh
Middle Paleolithic and Neolithic occupations on the Mundafan lakeshore, Empty Quarter, Saudi Arabia: implications for climate change and human dispersals.

Doman, J., A. Hill and R. Bribiescas
A new osteological approach to inferring hominin social behavior: seeking facial indicators of testosterone level.

Doran, T. L., A. Herries and P. Hopley
Assessing the paleoenvironmental potential of tufa deposits from Taung and sites of the Ghaap Plateau Escarpment, South Africa.

Drapeau, M., R. Bobe, J. Wynn and C. Campisano
Paleontology of the Mursi Formation, Lower Omo Valley, Ethiopia.

Garcea, E.
Dispersals out of Africa and back to Africa: modern origins in North Africa.

Gilbert, C., K. Kovarovic and R. Poland
Foramen magnum position in quadrupedal catarrhines

Gordon, A., D. Green and B. Richmond
Confidence limits for mass (not skeletal) dimorphism in Australopithecus afarensis.

Gravel-Miguel, C.
Shells and ornaments as markers of Magdalenian population expansion.

Hammond, A. and D. Alba
Middle Miocene hominid Pierolapithecus provides insight into early hominid pelvic morphology.

Hatala, K., R. Wunderlich, H. Dingwall and B. Richmond
What can we learn from fossil footprints? Multivariate predictive models for inferring anatomical and functional variables from fossil hominin footprint morphologies.

Haws, J. Riel-Salvatore, N. Bicho, O. Madime, M. Benedetti, L. Adamowicz and H. Matiquida
Recent research on the Middle Stone Age of coastal Mozambique.

Heffer, E., D. Raichlen and S. Kuhn
Working hard or hardly working? A preliminary study of the metabolic costs of stone knapping.

Kappelman, J., P. Keane, D. Reed, J. Tenbrage, A. Witzel and W. A. Barr
eFossils.org: a collaborative website and community database for the study of human evolution.

Ledogar, J., K. Carlson, S. Benazzi, G. Weber, L. Berger and D. de Ruiter
Feeding biomechanics of Australopithecus sediba examined using finite element analysis.

Leichliter, J., O. Paine, M. Sponheimer, P. Sandberg, D. de Ruiter, N. Avenant and D. Codron
Using mammalian microfauna to reconstruct hominin paleohabitats in South Africa.

Leslie, D.

Landscape environmental reconstructions for the Kapthurin Formation, Kenya.

Macias, M. and J. Feldblum

Correlations between orthograde climbing and scapular morphology in wild chimpanzees, with implications for Australopithecus afarensis.

Mackay, A.

Transitions and terminations: spatial and temporal patterning at the end of the Howiesons Poort industry in South Africa.

Merritt, S.

Cut mark cluster geometry does not predict Olodowan stone tool type or the amount of muscle tissue defleshed.

Meyer, S. and P. Schmidt

The functional morphology of the hominid fibula.

Niewoehner, W.

Preliminary radiographic analysis of Neandertal and Holocene human MC1 opponens crests.

Nigst, P., L. Koulakovska, V. Usik, F. Damblon, J.-J. Hublin and P. Haesaerts

Neandertal and modern human adaptations in climatic context: new fieldwork in Western Ukraine.

Oelze, V., J. Head, M. Robbins, M. Richards, C. Boesch

Diets of sympatric great apes and fossil hominins: searching for isotopic analogies.

Paine, O., J. Liechliter, M. Sponheimer and N. Avenant

Investigating hominin paleohabitats using fossil rodent ecomorphology.

Petraglia, M., A. Alsharekh, R. Crassard, H. Groucutt, C. Shipton, A. Parker, A. Parton

The paleodeserts project: environmental change and hominin occupation in the Arabian Peninsula.

Polk, J. and D. Raichlen

The relationship between aerobic activity and brain size during hominin evolution.

Ranhorn, K., A. Brooks, F. Masao and J. Yellen

The Middle Stone Age of Southeastern Tanzania: results from archaeological survey.

Ready, E. and E. Morin

Revisiting the Middle to Upper Paleolithic transition at Gatzarria Cave.

Reed, D. W. A. Barr, J. Kappelman, S. McPherron and T. Urban
PaleoCore: data integration for paleoanthropology.

Reed, N. and S. Churchill
Shape change in the sacroiliac joint at the emergence of Homo.

Schroer, K. and B. Wood
Sympatric primate populations: comparative models for evaluating dental morphological variation in early hominins.

Rezek, Z., S. Lin, M. Magnani, P. Van Peer and H. Dibble
The effects of variability in force application and platform properties on flake morphology.

Rougier, H., I. Crevecoeur, C. Beauval, D. Flas, H. Bocherens, C. Wissing and M. Germonpre
The first Upper Paleolithic human remains from Belgium: Aurignacian, Gravettian and Magdalenian fossils at the “troisieme caverne” of Goyet.

Shackelford, L., F. Demeter, A.-M. Bacon, P. Durringer, K. Westaway and T. Sayavongkhamdy
Mosaic traits of the human mandible from Tam Pa Ling, Laos at 46 ka.

Smith, H. and N. von Cramon-Taubadel
The phylogenetic utility of individual cranial bones in cercopithecoid primates: implications for reconstructing fossil hominin and non-hominin primate phylogeny.

Thompson, J., A. Zipkin, S. Nightingale, D. Wright, J.-H. Choi and A. Mackay and M. Welling
New discoveries at old sites: the legacy of J. D. Clark in Karonga, Malawi.

Todd, L., J. Kappelman, M. Kay, B. Nachman, N. Rosenau and N. Tabor
Middle Stone Age site use along the Shinfa River in NW Ethiopia.

Tostevin, G.
Applying evolutionary development to lithic technology: the generative entrenchment of blade core technology.

Puma, P., and J. Bruzek
Neandertal neonatal brain size estimating: validity of DeSilva and Lesnik (2008) models and new proposals.

Uomini, N. and G. Meyer
The prehistory of right-handedness and functional brain lateralization for stone tool-making.

Val, A., P. Dirks, L. Backwell, F. d'Errico and L. Berger
Spatial analysis of Australopithecus sediba fossils in 3D and taphonomic implications.

Walker, C., S. Sridhar and S. Churchill
Proximal femoral morphology of Berg Aukas in the context of global variation among modern humans.

Williams, C.
Life history in human evolution: a baboon model.

Wunderlich, R. and S. Ischinger
Form and function of the forefoot during vertical climbing in chimpanzees (Pan troglodytes)

Oral Presentations

Tuesday, April 2

9:00 – 12:30

Coral I - II

9:00 Introduction

9:15 Garrett, E. and M. Steiper
Testing the color vision priority hypothesis in primates: acquisition of trichromatic vision affects the vomeronasal system and not the main olfactory system.

9:30 Gomez-Robles, A., W. Hopkins and C. Shervood
From paleoneurology to neuroanatomy: insights on hominin brain evolution through comparative analysis of cerebral morphology in humans and chimpanzees.

9:45 Benazzi, S., N. H. Nguyen, O. Kullmer and J-J Hublin
Unravelling the functional biomechanics of dental morphological features.

10:00 Larson, S. and J. Stern
Comparisons of rotator cuff muscle use in chimpanzees, gibbons and orangutans: how are we to interpret differences in scapular fossa size?

10:15 Raichlen, D. A. Foster, J. Webber and H. Pontzer
Contributions of morphology and posture to the evolution of energetically economical hominin bipedalism.

10:30 Discussion

10:45 Bienvenu, T., D. Falk, K. Semendeferi, F. Guy, C. Zollikofer, M. Ponce de Leon
nad P. Tafforeau

Virtual reconstruction of the endocast of Sahelanthropus tchadensis.

11:00 Almecija, S., M. Tallman, D. Alba, M. Pina, S. Moya-Sola and W. Jungers
Latest Miocene hominin from Kenya Orrorin tugenensis exhibits intermediate femoral
morphology between earlier Miocene apes and later bipedal hominins.

11:15 Haile-Selassie, Y.

Evolutionary trends and correlation of morphology and function in mandibular fourth
premolars of early hominins.

11:30 Pickering, R.

U-Pb dating cave carbonates: a new chronometer for the South African hominin cave
sites.

11:45 Herries, A., B. Kuhn, M. Caruana, S. Baker, R. Stammers and C. Menter

New work at the Buxton-Norlim Limeworks, South Africa: palaeomagnetic analysis and
preliminary ages for the Taung Child bearing deposits of the Dart and Hrdicka Pinnacles
and new excavations at Equus Cave.

12:00 Fornai, C., F. Bookstein and G. Weber

Is there a second species at Sterkfontein Member 4?: Quantitative approaches using
second maxillary molars.

12:15 Discussion

Tuesday, April 2 2:00 – 4:00

2:00 Keeling R. and L. Berger

Paleo-Forensics: could soft organic tissue have preserved with the Plio-Pleistocene aged
hominins from the Malapa cave site, South Africa?

2:15 Rogers, M., S. Semaw, D. Stout and N. Levin

New excavations at the 2.6-million-year-old OGS-7 site, Gona, Ethiopia.

2:30 Parkinson, J. and T. Plummer

A GIS image analysis approach to Oldowan hominin meat eating at Kanjera South,
Kenya.

2:45 Bunn, H. and A. Gurtov

Evaluating prime-dominated prey mortality profiles at Pleistocene African archaeological sites.

3:00 Prassack, K.

Wetter-drier-wetter: the effect of environmental oscillations on avifaunal communities and hominin subsistence strategies at Olduvai Gorge.

3:15 McHenry, L., I. De la Torre, M. Pante and J. Njau

New insights into the stratigraphy and archaeology of the late Oldowan and early Acheulean at Olduvai Gorge, Tanzania.

3:30 Richmond, B., K. Hatala, A. Behrensmeyer, R. Bobe, D. Braun, H. Dingwall and D. Green

Hominin size, stature and behavior based on 1.5 million-year-old footprints from Ileret, Kenya.

3:45 Discussion

Poster Session 4:00 – 6:00 Coral Lounge

Wednesday, April 3 8:30 – 12:30 Coral I - II

8:30 Friess, M., L. Bondioli, A. Coppa, D. Frayer, Y. Libsekal, T. Medin, L. Rook and R. Macchiarelli

Buia (UA 31) and the parietal expansion in Homo.

8:45 Williams, E. M., A. Gordon, A. Brooks and B. Richmond
Oldowan and Acheulean knapping strategies

9:00 Huffman, O. F., H. Posametier, L. Wood, J. de Vos, A. Balzeau and A. Berkhout
Quaternary glacioeustatic record and hominin paleobiogeography of the Sunda lowlands, Southeast Asia.

9:15 Braun, D., N. Levin, D. Stynder, W. Archer, D. Presnyakova, D. Roberts and F. Forrest

Archaeological investigations at Elandsfontein, south-west coast South Africa.

- 9:30 Armstrong, A.
Small mammal utilization by Middle Stone Age humans at Die Kelders Cave 1, Western Cape, South Africa.
- 9:45 Marean, C.
The character and appearance of the coastal adaptation and its significance for the origins of prosocial behavior and modern humans.
- 10:00 Discussion
- 10:15 Schoville, B., K. Brown and S. Oestmo
Early microlithic projectiles from Pinnacle Point, South Africa.
- 10:30 Blegen, N. and S. McBrearty
Tephrostratigraphy and the Early Middle Stone Age in the Kapthurin Formation, Kenya: new correlations, dates and prospects for future research.
- 10:45 Tryon, C., J. T. Faith, D. Peppe, N. Blegen, E. Beverly, D. Patterson and Z. Jacobs
Pleistocene archaeology and paleoenvironments of the Lake Victoria basin in Kenya.
- 11:00 Krause, J.
Complete mitochondrial genomes of early modern humans suggest late out of Africa migration.
- 11:15 Hartman, G., E. Hovers and M. Richards
Isotopic evidence for temporal change in Neandertal hunting ranges at Amud Cave, Israel.
- 11:30 Radovicic, D.
The implications of variation in Late Pleistocene Levantine crania for understanding the pattern of human evolution.
- 11:45 Monnier, G.
Towards a new methodology of lithic residue analysis.
- 12:00 Bell, C., D. Henry and M. Belmaker
Symmetry in Levantine Mousterian Levallois points and the implication for Neanderthal cognition: comparison between two analytical methods.
- 12:15 Discussion

Wednesday, April 3 2:00 – 6:15

2:00 Belmaker, M., J. Clark, R. M. Albert, T. Arpin, D. Cabanes, G. Hartman and F. Hourani

Paleoecological evidence for humid and arboreal environment at the Levantine early PU and its implication for modern human dispersal from Africa: micromammal evidence from the Mugar el Hamamah, Ajlun District, Jordan.

2:15 Morin, E.

Can ungulate assemblages be used to detect rapid climatic changes? Implications of a new time series for the chronology of the Mousterian.

2:30 Hublin, J.-J.

Did the Chatelperronian result from independent invention or from cultural diffusion?

2:45 Bailey, S., S. Benazzi, C. Astorino, K. Paul and J.-J. Hublin

More insights from above: comparison of upper deciduous second molar and permanent first molar morphology in Homo neanderthalensis and Homo sapiens.

3:00 Riel-Salvatore, J.

Grotta Mario Bernardini revisited: new data on a poorly known transitional sequence in Southern Italy.

3:15 Soressi, K., S. McPherron, M. Lenoir, T. Dogandzi, P. Goldberg, Z. Jacobs., Y. Maigrot, N. Martisius, C. Miller, R.W. Rendu, M. Richards, M. Skinner, T. Steele, S. Talamo and J.-P. Texier

The discovery of an Upper Paleolithic tool type, lissoir, in the Middle Paleolithic of Abri Peyrony and Pech de l'Aze I.

3:30 Wang, S.

Late Pleistocene craniofacial variation at the Eastern Frontier

3:45 Discussion

4:00 Slater, P., S. Ambrose, M. Drigo and P. Wiessner

Ostrich eggshell isotope analysis: results and implications for reconstructing prehistoric exchange systems in the African Stone Age.

4:15 Ambrose, S. and P. Slater

Smaller things remembered: ostrich eggshell technology, taphonomy and geochemistry in Kenya.

4:30 Bosch, M., M. Mannino, A. Predergast, T. O'Connell, F. Wesselingh, J. van der Plicht and J.-J. Hublin

Initial Upper Paleolithic to Epi-Paleolithic marine mollusk exploitation at Ksar Akil (Lebanon): new zooarchaeological, radiometric and isotopic data.

4:45 Munro, N. and M. Stiner

Long-term dietary and settlement change at the Paleolithic occupation of Franchthi Cave, Greece (39,000 – 4,000 cal. BP)

5:00 Wu, X. and O. Bar-Yosef

Notes on the Chinese Upper Paleolithic

5:15 Habgood, P. and N. Franklin

A demographic, social and symbolic framework for the appearance of modern human behavior in Sahul.

5:30 Discussion

5:45 – 6:15 Business meeting