

(psoc14 preliminary program)

**Paleoanthropology Society**  
**2014 Annual Meeting**  
**April 8, 9**  
Hyatt Regency Calgary

**Posters**

**Tuesday, April 8 4:00 – 6:00**  
**Hyatt Stephen A/B**

Bailey, S., R. Iovita, V. Kharitoniv, T. Higham, A. Buzhilova and R. Pinhasi  
The power of deciduous teeth in diagnosing taxa: a case study of a late surviving Neandertal in the Caucasus.

Belmaker, M., C. Bridge, C. Bell, and H. Simonyan  
Preliminary results from the renewed excavations from Peshcka Cave: a stratified Middle and Upper Paleolithic cave in the Lori Plateau, Armenia.

Blackwell, B., S. Chu, Y. Huang, D. Mihailovic, M. Roksandic, V. Dimitrijevic, J. Blickstein and A. Skinner  
ESR dating tooth enamel from the Mousterian layers in Pesturina Cave, Serbia.

Brewster, C. C. Meiklejohn, N. von Cramon-Taubadel and R. Pinhasi  
Cranio-metric analysis of European Upper Paleolithic and Mesolithic samples supports discontinuity at the Late Glacial Maximum.

Brophy, J., P. Randolph-Quinney and L. Berger  
A taphonomic assessment of the bovids from Malapa, South Africa, and its implications for the accumulation of Australopithecus sediba fossils.

Buck, L., J. C. Berbesque and C. Stringer  
Gastrophagy in the Hadza and its implications for hominin diets

Carlson, K., D. de Ruiter, K. McNulty, T. DeWitt and L. Berger  
Developmental simulation of the adult cranial morphology of Australopithecus sediba.

Clark, J. and A. Stutz

The Early Upper Paleolithic fauna from Mughr el-Hamamah (Jordan): an initial report on species representation and gazelle exploitation based on the dental remains.

Cleghorn, N. J. Wilkins, C. Shelton, B. Schoville, L. Richardson and L. Phillips  
New stone age localities near the Knysna Heads, Western Cape, South Africa.

Curran, S. and Y. Haile-Selassie  
Paleohabitat reconstruction of the Middle Pliocene site, Woranso-Mille, Ethiopia, using a multi-proxy approach.

Eren, M., C. Roos, N. von Cramon-Taubadel and S. Lycett  
The role of raw material differences in handaxe shape variation: an experimental assessment.

Fenwick, A., M. Glantz and R. Browning  
Bone mineral density in habitual climbers: an analogue for early hominins?

Harris, J., M. Bar-Matthews, J. Brink, K. Braun, E. Fisher, Z. Jacobs, P. Karkanas and C. Marean  
Herolds Bay Cave: new evidence for Middle Stone Age coastal adaptations in Cape Province, South Africa.

Henry, A., A. Hutschenreuther, O. Paine, M. Sponheimer, J. Leichliter, D. Codron and J. Codron  
Seasonal and habitat variation in nutritional and antifeedant properties of South African plants.

Hensley-Marschand, B.  
The fauna of Feiliang: a preliminary analysis from the Nihewan Basin of China.

Key, A. and S. Lycett  
Edge angle as a variably influential factor in flake cutting efficiency: an experimental investigation of its relationship with tool size and loading.

Kissel, M.  
Explaining the effective size of modern humans: integrating genetic, skeletal and archaeological data.

Kramer, P. and S. Lautzenheiser  
Foot length in Australopithecus afarensis.

Lautzenheiser, S. and P. Kramer  
Populational variability in size using the Sima de los Huesos tali.

Le Luyer, M., S. Rottier and P. Bayle  
Enamel thickness topography and molar wear pattern in European early agriculturalists.

Leonard, C., L. Vashro, J. O'Connell and A. Henry

Diet breadth and dental calculus: starch grains and phytoliths in calculus from Ovatwe forager-horticulturalists.

Mahaney, R., J. Njau and F. Masao

Evidence for the use-life of percussive technology in Bed I, Olduvai Gorge, Tanzania.

Nelson, E., A. Sinclair, J. Hall and P. Randolph-Quinney

Using geometric morphometrics to sex hand stencils: implications for investigating Paleolithic rock art.

Nicholas, C. and R. Franciscus

Quantifying morphological variation in the nasal floor of extant and fossil Homo.

Niewoehner, W.

Neandertal metacarpal 5 base shape: a 3D geometric morphometric analysis.

Rhodes, S., M. Lopez-Martinez, M. Haber-Uarte, A. Lopez-Jimenez and M. Walker

Evidence for curated fire during the late Early Pleistocene in Southeastern Spain: a micromammalian taphonomic approach.

Schillinger, A. Mesoudi and S. Lycett

The impact of imitative versus emulative social learning mechanisms on artefactual variation: implications for the Acheulean.

Spiteri, C., A. Hutschenreuther, J. Watzke and A. Henry

Starch taphonomy on stone tools: considering anthropogenic alterations, climate and soil chemistry.

Stewart, B. and G. Dewar

Take me to the river: the Orange-Senqu corridor and Late Pleistocene population dynamics in inland southern Africa.

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

Angling in on bone breakage: a controlled study of hammerstone and hyena (Crocuta crocuta) long bone breakage.

Terhune, C.

Were Neanderthals biting off more than they could chew? Evidence from the temporomandibular joint of Middle and Late Pleistocene hominins.

Veatch, E., M. Tocheri, R. Awe, E. Saptomo, T. Sutikna, Jatmiko, S. Wasisto, K. Helgen, H. Meijer

Postcranial functional anatomy of the endemic rats from Liang Bua, Flores, Indonesia.

Viola, B. S. Sawyer, M. Shunkov, A. Derevianko, S. Paabo and J-J. Hublin

New teeth from Denisova Cave and the dental morphology of the Denisovans.

Welch, K. and M. Pante

Experimental determination of butcher experience using cutmark patterning.

Werner, J.

Modern human behavior in the East African MSA: a preliminary evaluation of lithic artifacts from Magubike Rockshelter, Tanzania.

Willman, J.

Dental fluctuating asymmetry among early modern humans and Neandertals.

## **Oral Presentations**

**Tuesday, April 8 9:00 – 12:15**

**Hyatt Imperial Ballroom 4/6**

9:00 Introduction

9:15 Haslam, M.

Monkey archaeology.

9:30 Reno, P.

Genetic and developmental basis for parallel evolution and its significance for understanding hominoid evolution.

9:45 Smith, T., C. Boesch, J. Sirianni and K. Hinde

Developmental disruptions in the teeth of primates of known histories.

10:00 Wood, B.

Learning to live with missing data.

10:15 Du, A., A. Zipkin, K. Hatala, J. Baker, S. Bianchi, E. Renner, K. Bernal and B. Wood

Quantifying the tempo and mode of hominin cranial capacity evolution taking into account dating and measurement error.

10:30 Discussion

10:45 Villasenor, A., R. Bobe and A. K. Behrensmeyer

Ecological change at Koobi Fora in northern Kenya circa 3.4 million years ago: implications for hominin biogeography in East Africa

11:00 Roach, N., E. M. Williams, and B. Richmond

Force production during stone tool knapping

11:15 Rak, Y. and E. Been  
Two hominid taxa at Malapa: the mandibular evidence

11:30 Been, E. and Y. Rak  
The lumbar spine of Australopithecus sediba indicates two hominid taxa.

11:45 Discussion

**Tuesday, April 8 2:00 – 4:00**  
**Hyatt Imperial Ballroom 4/6**

2:00 Quinn, R.  
Testing environmentally-based hypotheses of Homo sp. evolution with pedogenic carbonate stable isotopes in the Turkana basin.

2:15 Patterson, D., R. Bobe, D. Braun, B. Richmond, A. K. Behrensmeyer and B. Wood  
Did Homo and Paranthropus differ in ecology? Evidence from East Turkana, Kenya

2:30 Barr, W.  
Paleoenvironments of the Omo Shungura Formation: synthesizing multiple lines of evidence using bovid ecomorphology.

2:45 Marks, T., E. Marais, M. Seely and G. McCall  
Revisiting the Early Stone Age of the Namib Sand Sea.

3:00 Pante, M., I. de la Torre, L. McHenry and J. Njau  
The vertebrate assemblage from HWK EE, Bed II, Olduvai Gorge

3:15 Faith, J. T., C. Tryon, D. Peppe, E. Beverly, N. Blegen, S. Blumenthal, K. Chritz, S. Driese and D. Patterson  
Late Pleistocene archaeology and paleoenvironments of Karungu in the Lake Victoria Basin, Kenya

3:30 Discussion

**Poster Session 4:00 – 6:00**  
**Hyatt Stephen A/B**

**Wednesday, April 9 9:00 – 12:15**  
**Hyatt Imperial Ballroom 6/8**

- 9:00 Garcia Garriga, J. and K. Martinez Molina  
Chronology of the early hominin settlement of Iberia: Vallparadis (Barcelona, Spain)
- 9:15 Smith, E. , A. Ciravolo, P. Karkanas, C. Marean, E. Fisher, N. Cleghorn, C. Lane and M. Ren  
Cryptotephra possibly from the 74 ka eruption of Toba discovered at Pinnacle Point, South Africa: implications for resolving the dating controversy for Middle Stone Age sites in southern Africa.
- 9:30 Wilkins, J. K. Brown, S. Oestmo, T. Pereira, K. Ranhorn, B. Schoville and C. Marean  
A high resolution Late Pleistocene (ca. 90 – 50 ka) Middle Stone Age lithic technological sequence at Pinnacle Point Site 5-6, South Africa
- 9:45 de Vynck, J., K. Hill, R. Anderson, R. Cowling and C. Marean  
Return rate estimates for inter-tidal foraging from experiments on the south coast of South Africa: implications for debates over the significance of early marine resource use.
- 10:00 Robinson, J.  
Analyzing a paleoenvironmental context for Middle and Late Stone Age behavioral transitions.
- 10:15 Discussion
- 10:30 Zipkin, A., A. Brooks, N. Toth, K. Schick  
A reconsideration of the ochre artifact assemblage from J. D. Clark's excavation at Twin Rivers Kopje, Zambia.
- 10:45 Hallett-Desguez, E., H. Dibble, C. Marean and T. Steele  
A large and varied bone tool assemblage from Contrebandiers Cave (Atlantic coast of Morocco) dated between ca. 122 ka – 96 ka.
- 11:00 Willoughby, P.  
Middle and Later Stone Age technology and adaptation in southern Tanzania.
- 11:15 Spiller, K., A. Skinner, P. Willoughby and T. de Colbert  
Electron spin resonance (ESR) dating and human evolution.
- 11:30 Miller, J. M.  
Middle Stone Age ostrich eggshell beads from Magubike, Tanzania.
- 11:45 Potts, R., A. K. Behrensmeier, A. Deino, R. Kinyanjui and A. Noren  
Building the climate context of the Acheulean and Middle Stone Age of East Africa:

the Olorgesailie drilling project.

12:00 Discussion

**Wednesday, April 9 2:00 – 6:00**  
**Hyatt Imperial Ballroom 6/8**

- 2:00 Blegen, N., C. Tryon, J. T. Faith, D. Peppe and E. Beverly  
Tephrostratigraphy & Middle Stone Age archaeology of the eastern Lake Victoria Basin, Kenya: a refined stratigraphic context for Late Pleistocene human evolution in East Africa.
- 2:15 Tryon, C. J. T. Faith, I. Crevecour, W. Sharp, R. Ekshtain, J. Nivens and D. Patterson  
Revised age and context of the Middle and Later Stone Age strata and associated hominin from GvJm-22, Lukenya Hill, Kenya.
- 2:30 Slater, P.  
They don't make them like they used to: unifacial point production and maintenance at the Kenya Middle Stone Age site of Marmonet Drift.
- 2:45 Mishra, S.  
Competitive interaction model for modern human dispersals: tropical versus temperate adapted populations.
- 3:00 Blackwell, B. K. Chen, I. Singh, M. Hardy, L. Doyon, F. David, C. Tolmie, A. Skinner and J. Blickstein  
ESR dating the Mousterian layer J at Grotte du Bison, Arcy-sur-Cure, France.
- 3:15 Discussion
- 3:30 Davis, C. and M. Glantz  
Size and scaling in the chest and pelvis of modern humans and earlier Homo.
- 3:45 Mounier, A. and M. M. Lahr  
Virtual ancestor reconstruction: revealing the last common ancestor of modern humans and Neandertals.
- 4:00 Salazar-Garcia, D., J. Aura, J. Jorda Pardo, E. Alvarez-Fernandez, M. Perez Ripoll, J. Morales, B. Avezuela and M. Richards  
Direct evidence for the intensive exploitation of marine resources from the Paleolithic to the Neolithic periods at the site of Nerja Cave (Malaga, Spain)
- 4:15 Slepchenko, S., A. Bondarev, Y. Kuzmin, D. Razhev, Q. Fu, S. Paabo and B. Viola  
An early Upper Paleolithic modern human femur from Central Siberia.

4:30 Hoffecker, J., S. Elias and D. O'Rourke  
Out of Beringia: genetics, paleo-ecology and archaeology.

4:45 Discussion

5:00 Business meeting