

**Paleoanthropology Society**  
**2015 Annual Meeting**  
**April 14, 15**  
Hilton San Francisco Union Square

**Monday April 13 6:00 – 8:00**

**Hilton Union Square 4**

“New Hands – Old Hands” “ Thinking about publishing your first paper: meeting with journal editors

**Posters**

**Tuesday, April 14 4:00 – 6:00**

**Imperial Ballroom B**

Alex, B., D. Mihailovic, S. Milosevic and E. Boaretto

Timing and nature of Neanderthal and modern human overlap in the Balkans.

Malinsky Buller, O. Ackermann, A. Avenr, M. Bar-Matthews, M. Birkenfeld, N. Porat, R. Hagi, J. Roskin and O. Barzilai

Another facet of behavioral variability in the Levantine Middle Pleistocene: the age and paleoenvironment of the Lower Paleolithic site of Kefar Menachem West, Israel.

Barbieri, A., N. Conard and C. Miller

The impact of Late Glacial landscape changes on the formation processes of cave sites in the Swabian Jura: results from an ongoing project.

Best A., B. Holt, J. Hamill and K. Troy

Trabecular bone structure in forefoot and rearfoot endurance runners: implications for interpreting fossil hominin morphology.

Bicho, N., V. Aldeias, M. Benedetti, J. Cascalheira, C. Goncalves, J. Haws, O. Madime, T. Pereira, M. Raja and B. Zinsious

Chicaza rockshelter (Niassa, Mozambique): a preliminary report on stratigraphy and chronology.

Buckley, M., S. W. Kansa, W. Abu Baker Basha, and A. Chamberlain

The application of proteomics techniques to the study of ancient human tissues.

Bunn, H.

Bovoid mortality patterns at Elandsfontein, Western Cape Province, South Africa, and implications for the hunting capability of Acheulean-age hominins.

Clark, A.

The spatial distributions of lithic artifacts within Middle Paleolithic sites: a comparative study of seven sites.

Davis, J., A. Zipkin, V. de Moor, J. C. Thompson, J. R. Arrowsmith, M. B. Foster and E. Gomani-Chindebvu

Exploratory survey and landscape archaeology in the Karonga District, northern Malawi.

Du, A., J. Rowan and D. Patterson

Quantifying the habitat preference of extinct mammals, including hominins, in Plio-Pleistocene eastern Africa.

Finestone, E. M., M. Brown, S. R. Ross and H. Pontzer

The kinematics of knuckle-walking: to what extent is gait and posture conserved in the African great apes?

Fisher, E., R., M. Albert, G. Botha, J. C. Cawthra, I. Esteban, J. Harris, Z. Jacobs, A. Jerardino, C. W. Marean, F. H. Neumann, J. Pargeter and J. A. Venter

300,000 years of coastal occupation in Pondoland: recent findings of the P5 project and future directions.

Frahm, E., D. S. Adler, J. M. Feinberg, K. N. Wilkinson and B. Gasparyan

Developing geochemical and magnetic studies of obsidian lithic assemblages: a case study in the Hrazdan, Valley, Central Armenia.

Glaubergerman, P., B. Gasparyan, S. Kuhn, K. Wilkinson, E. Frahm, Y. Raczynski-Henk, H. Haydosyan, S. Napapetyan, D. Arakelyan and D. Adler

Hominin population dynamics and dispersals in the Armenian highlands and Anatolia: new data from Barozh 12, a Middle Paleolithic open-air site on the edge of the Ararat Depression, Armenia.

Hill, M., J. Kappelman, L. Todd, F. Huffman and J. de Vos

Taphonomic history of the Homo Erectus site at Trinil, Java.

Hodgkins, J. M., S. Ivanova, N. Spassov, M. Gurova, C. Miller, J. Makedonska, C. M. Orr and D. S. Strait

Deep cave foraging by late Pleistocene hominins in northwestern Bulgaria.

Hovers, E. O. Barzilai, R. Ekshtain, A. Malinsky Buller, N. Greenbaum, N. Agha, R. Shahack-Gross, N. Nir, M. C. Stahlschmidt, L. Brailovsky, N. Mitki, P. Spivak, A. Vered, J. Roskin, M. Krakovsky and M. Ullman.

The Late Middle Paleolithic open-air site complex of Ein Qashish, northern Israel.

Huffman, O. F., P. C. H. Albers, A. W. Berkhout and J. de Vos  
Did Trinil femur I originate from a younger formation than the Homo erectus skullcap?  
Implications of early site photographs and other provenience records.

Amugongo, S. K. and L. J. Hlusko  
In utero sources of skeletal variation: the role of maternal prenatal stress.

Kuhn, S. and A. Bouzouggar  
Exploratory excavations at Bizmoune Cave (Essaouira): first results on the Aterian of the south Atlantic coast of Morocco.

Leader, G. M., R. J. Gibbon, K. Kuman and D. Granger  
Technological sequence and origins of prepared core technology at Canteen Kopje, Northern Cape Province, South Africa.

Lin, S. C., H. Dibble and S. P. McPherron  
Neanderthal local raw material utilization and transport in southwestern France.

Ludeman, E. M., W. Wang, D. Li, S. Bailey, T. Harrison and C. J. Bae  
Elliptical fourier analysis of two hominoid teeth from Middle Pleistocene Sanxieshan Cave, Daxin, Guangxi, China.

Mant-Melville, A.  
Impact fracture patterns on experimental basalt points – towards a more robust macro-fracture method.

Mazelis, E. J.  
Lumbar vertebral shape and trabecular structure in African Papionini

Morgan, T. J. H., N. T. Uomini, L. E. Rendell, L. Chouiard-Thuly, S. E. Street, H. K. Lewis, C. P. Cross, C. Evans, R. Kearney, I. de la Torre, A. Whiten and K. N. Laland  
The social transmission of Oldowan lithic technology.

Nightingale, S. F. Schilt, J. C. Thompson, J. Davis, M. Welling, D. K. Wright, J.-H. Choi, and E. Gomani-Chindebvu  
Lithic technologies of the Malawian Middle Stone Age: building a chrono-spatial framework for early modern human behavior in Central Africa.

Oliver, J. S.  
A fractographic method to distinguish hominin vs. carnivore broken bone: improving estimates of hominin and carnivore involvement in the FLK-Zinjanthropus fossil assemblage, Olduvai Gorge, Tanzania.

Pargeter, J. and M. Redondo  
Small things considered: examining processes and definitions of southern African microlithization at Rose Cottage Cave and Sehonghon.

Patel, B. A., B. Varghese, A. C. Perez, A. L. Lewis, T. Jashashvili, M. Tocheri, S. Almecija, W. L. Jungers and C. M. Orr

A new (semi-) automated method to quantify primate phalangeal curvature from 3D virtual models: new estimates for fossil hominin phalanges.

Pereira, J. Caninas, E. Carvalho, F. Henriques, D. Maio, C. Mendes, E. Paixao, A. Pereira and L. Rasposo

Cobrinhos, a new Mousterian site in Vila Velha de Rodao (Portugal)

Pobiner, B. C. P. Higson, K. Kovarovic and B. Schindler

Modeling differential access to meat with experimental butchery: implications for the “hunting/scavenging” debate.

Putt, S. S.

The origins of stone tool reduction and the transition to knapping: an experimental approach.

Reed, D. N. W. A. Barr, S. McPherron, T. Urban and J. Kappelman

PaleoCore: a web based data management system for paleoanthropology.

Reeves, J., D. Braun, M. Douglass, S. Hlubik, A. Du, D. Patterson and J. Harris

Landscape-scale patterning in hominin behavior in the Okote Member at East Turkana northern Kenya: paring behavioral and paleoecological data.

Rowan, J., K. E. Reed, A. Du, E. M. Locke, I. Smail, C. J. Campisano and I. A. Lazagabaster

Fossil mammals reveal patterns of inter- and intra-basinal endemism in eastern Africa, ca. 4 to 1 Ma: implications for hominin biogeography.

Ruck, L. M., K. H. MacDowell, R. L. Holloway and D. C. Broadfield

Spatial analysis of Broca’s Cap asymmetry in endocasts using ArcGIS.

Schilt, F., S. Mentzer, D. Wright, J. Thompson, C. E. Miller and E. Gomani-Chindebvu

Micromorphology of Middle to Later Stone age sites in northern Malawi.

Sender, R. and C. Feibel

The paleoecological reconstruction of Area 123 and Area 6/6A, Koobi Fora, and the implications for the habitat preferences of *Homo* and *Paranthropus boisei*.

Shapiro, A.

Reconstructing dietary diversity in primates using variation in dental microwear textures.

Sumner, A. and W. Archer

Analysis and re-evaluation of the Middle Stone Age Howiesons Poort sequence from Montague Cave, Western Cape, South Africa.

Sykes, R. W., V. Delvigne, P. Fernandes, A. Lafarge, R. Liabeuf, M. Piboule and J.-P. Rahynal  
Extraction and exploitation of silcrete outcrops during the Paleolithic at Saint-Pierre-Eynac,  
France.

Taylor, N., A. Arroyo, S. Harmand, H. Roche, M. Brenet and J. Lewis  
Multi-functionality and stone tool re-use in the ESA: an example from the Nachukui Formation  
of West Turkana, Kenya.

Throckmorton Z., T. R. Pickering, J. L. Heaton. M. Sutton, J. Senjem. R. J. Clarke, K. Kuman  
and C. K. Brian  
New hominin tarsals from Swartkrans, South Africa.

Villaluegna, A., J. M. Hutson, A. Garcia-Moreno, E. Turner, and S. Gaudzinski-Windheuser  
Tool-making bones from the Schoningen 13II-4 spear horizon.

Villamil, C.  
Function and morphology in the hominid cervical spine: postural influences on integration.

Weniger, G.-C., H. Bruchkner, M. Kehl, J. Linstadter and K. Reicherter  
Late glacial rapid climate change and human response in the Western Mediterranean.

Whitfield, E., T. Plummer., J. Oliver, P. Ditchfield and L. C. Bishop  
Sedimentological characteristics and depositional context of c. 2 million year old Oldowan  
archaeological occurrences at Kanjera South, Kenya.

Williams, S. A. M. R. Meyer, M. P. Smith and G. J. Sawyer  
A reassessment of vertebrae associated with the Australopithecus afarensis partial skeleton  
A L. 288-1 (“Lucy”)

Young, N. and Z. Alemseged  
The effect of growth on the shape of the Dikika Australopithecus afarensis scapula with  
implications for hominin evolution.

## Oral Presentations

**Tuesday, April 14 9:00 – 12:15**  
**Imperial Ballroom A**

9:00 Introduction

9:15 Eyre, J  
The use of the ascending ramus in hominoid and hominin phylogeny.

- 9:30 Gomez-Robles, A., W. D. Hopkins and C. C. Sherwood  
The evolution of developmental plasticity in human brains.
- 9:45 Lawrence, J. A.  
Patterns and parameters of morphological variation in the South African australopith jaws.
- 10:00 Thompson, J. C., S. P. McPherron, R. Bobe, A. Barr, D. Reed, J. Wynn, C. W. Marean  
and Z. Alemseged  
Taphonomy of fossils from the hominin-bearing deposits at Dikika, Ethiopia.
- 10:15 Reed, K. E., E. DiMaggio, C. Campisano, J. Rowan, G. Dupont-Nivet, A. Dieno, F. Bibi,  
M. Lewis, A. Souron, L. Werdelin, J. R. Arrowsmith, B. Villmoare, W. H. Kimbel,  
C. Seyoum and D. Braun  
Paleoanthropology of Ledi-Geraru, Afar Regional State, Ethiopia.
- 10:30 Discussion
- 10:45 Harmand, S., J. E. Lewis, C. S. Feibel, C. J. Lepre, S. Prat, A. Lenoble,  
X. Boes, R. L. Quinn, M. Brenet, A. Arroyo, N. Taylor, S. Clement, G. Daver,  
J.-P. Brugal, L. Leakey, D. V. Kent, R. A. Mortlock, J. D. Wright and H. Roche  
Early tools from West Turkana, Kenya.
- 11:00 Campisano, C. J., A. S. Cohen, A. Asrat, C. S. Feibel, J. D. Kingston, H. F. Lamb,  
D. O. Olago, R. B. Owen, R. W. Renault, F. Schabitz, J. R. Arrowsmith,  
and S. J. Ivory  
Drilling campaign summary and preliminary results of the Hominin Sites and Paleolakes  
Drilling Project (HSPDP).
- 11:15 Toth, N., K. Schick, J. Njau and I. Stanistreet  
The Olduvai Geological Coring Project (OGCP): providing a new paleoenvironmental  
context for human evolution at Olduvai Gorge, Tanzania.
- 11:30 Parkinson, J. and T. Plummer  
A GIS image analysis of bone surface modification patterns in the FLK 22 (FLK Zinj)  
Assemblage, Olduvai Gorge, Tanzania.
- 11:45 Roach, N. T., K. G. Hatala, K. R. Ostrofsky, J. Reeves, A. K. Behrensmeyer and  
B G. Richmond  
Hominin paleoecology and land use based on 1.5 Ma footprint surfaces at Ileret Kenya.
- 12:00 Discussion

**Tuesday, April 14 2:00 – 4:00**

## **Imperial Ballroom A**

- 2:00 Coil, R., M. Tappen, R. Ferring, M. Bukhsianidze and D. Lordkipanidze  
Spatial approaches to site formation and carnivore-hominin interaction at Dmanisi, Georgia
- 2:15 Tappen, M., R. Coil, R. Ferring, M. Bukhsianidze and D. Lordkipanidze  
Site formation and interactions between Homo and the mammals from Dmanisi.
- 2:30 Zollikofer, C. P. E., D. O. Lordkipanidze and M. S. Ponce de Leon  
Everything you always wanted to know about Skull 5 (D4500/D2600) but were afraid to ask.
- 2:45 Patterson, D. B., S. Lehman, T. Matthews, N. E. Levin, D. S. Stnyder, F. Forrest, L. C. Bishop, R. Pickering, A. Herries, D. Roberts, K. Fitzsimmons and D. R. Braun  
New multiproxy investigations into the ecosystem at Elandsfontein, South Africa: Implications for Mid-Pleistocene hominin paleoecology on the Western Cape.
- 3:00 Forrest, F. L., D. D. Stnyder, L. C. Bishop, N. E. Levin, T. Mathews and D. R. Braun  
Zooarchaeological analysis of newly excavated Middle Pleistocene deposits from Elandsfontein, South Africa.
- 3:15 Engelbrecht, F., R. Nkoana, R. Cowling, E. Fisher, J. Franklin, C. W. Marean, D. O'Neal, A. Potts and E. Shook  
Detailed dynamic modelling of glacial climate over the Cape south coast of South Africa
- 3:30 Jacobs, Z. C. W, Marean, E. Fisher, P. Karkanas and H. Cawthra  
A high-resolution single grain optically stimulated luminescence chronology for Pinnacle Point site 5-6.
- 3:45 Discussion

## **Poster Session 4:00 – 6:00**

### **Imperial Ballroom B**

## **Leakey Foundation Reception 6:00 – 8:00**

### **Hilton Chevalier Room**

## **Wednesday, April 15 9:00 – 12:15**

### **Plaza A**

- 9:00 Leslie, D. E., S. McBrearty, G. Hartman  
Reconstructing Middle Pleistocene landscapes in the Kapthurin Formation using biomass productivity and stable isotope proxies.
- 9:15 Blegen, N.  
Evidence of early Middle Stone Age technology and long distance transport of obsidians by later middle Pleistocene hominins at the ~300 ka Sibilo School Road Site (GnJh-79), Kapthurin Formation, Kenya.
- 9:30 Wilkinson, K., D. Adler, S. Blockley, E. Frahm, D. Mark, C. Mallol, S. Nahapetyan, and B. Gasparyan  
Paleolandscape context for Lower-Middle Paleolithic activity in the Hrazdan Valley, central Armenia.
- 9:45 Adler, D., K. Wilkinson, S. Blockley, D. Mark, E. Frahm, B. Schmidt-Magee, P. Glauberman, Y. Raczynski-Henk, O. Joris and B. Gasparyan  
Early Levallois technology and the transition from the Lower to Middle Paleolithic in the southern Caucasus.
- 10:00 Zaidner, Y., A. Frumkin, N. Porat, A. Tsatskin, R. Yeshurun, L. Weissbrod, L. Centi, M. Prevost, M. Shemer and O. Varfoner  
Nesher Ramla karst depression, Israel: Middle Paleolithic occupations (170-80 ka BP) in a new type of site.
- 10:15 Discussion
- 10:30 Ekshtain, R., E. Hovers, S. Ilani and I. Segal  
Lithic raw material procurement in Qafzeh and Amud Caves: implications for mobility patterns in the Levantine Middle Paleolithic.
- 10:45 Clark, J. L.  
The Still Bay and pre-Still Bay fauna from Sibudu Cave (South Africa): implications for understanding behavioral variability in the southern African Middle Stone Age.
- 11:00 Wright, D. K. J. Thompson, J.-H. Choi, F. Schlit, M. B. Foster, D. Fink, S. Nightingale, A. Heimsath, J. R. Arrowsmith, A. Cohen and E. Gomani-Chindebvu  
Alluvial fan sedimentation and Late Pleistocene climate change in the northern Malawi Rift: context and evidence for Middle Stone Age demographic change.
- 11:15 Reiner, W. B. L. J. Hlusko, F. T. Masao and A. Songita  
A new hominid fossil from Olduvai Gorge, Tanzania: OH83, an early modern human calvarium from the Ndutu Beds.
- 11:30 Radovicic, D., A. O. Srsen, J. Radovicic, and D. Frayer  
Eagle claw jewelry from Krapina at 130,000 years ago.



11:45 Hoffecker, J. F., V. T. Holliday, P. E. Nehoroshev, L. B. Vishnyatsky, A. K. Ocherednoi and V. V. Pitulko  
New dates on Middle Paleolithic sites of the East European Plain: implications for Human paleogeography.

12:00 Discussion

### **Wednesday, April 15 2:00 – 6:00**

#### **Plaza A**

2:00 Hutson, J., A. Villaluenga, S. Gaudzinski-Windheuser, A. Garcia-Morfeno, E. Turner, K. W. Alt, T. M. Kaiser, C. Knipper  
Schoningen 13 II-4: a Middle Pleistocene horse opera in several acts.

2:15 Smith, G. M., A. Garcia, L. Kindler, E. Pop, S. Gaudzinski-Windheuser and W. Roebroeks  
Neanderthals in the Eemian lakeland landscape of Neumark-Nord 2 (Germany).

2:30 Picin, A.  
Neanderthal mobility in the northeast of the Iberian Peninsula: the patterns of chert exploitation at the Abric Romani rock-shelter.

2:45 Rougier, H, I. Crevecoeur C. Beauval, H. Bocherens, D. Flas, M. Germonpre, A. Gomez-Olivencia, J. Krause, C. Posth, P. Semal, J. van der Plicht, and C. Wissing  
First evidence of Neandertal cannibalism in Northern Europe: the case of the “Troisieme Caverne” of Goyet (Belgium)

3:00 Cascalheira, J., C. Gonclaves, V. Aldeias, M. Benedetti, J. Haws, O. Madime, D. Matos, T. Pereira, M. Raja, B. Zinsious, and N. Bicho  
Stone age occupations in Northern Mozambique: new evidence from a survey project in the Lunho river valley (Niassa)

3:15 Discussion

3:30 Tryon, C. A., J. E. Lewis, M. Laird, A. Mabulla, A. Kwekason, A. Gidna, K. L. Ranhorn, C. Ehrhart and C. W. Marean  
Renewed investigation of the Late Pleistocene-Holocene archaeological and paleoenvironmental sequence from Kisese II rockshelter, Tanzania.

3:45 Marks, A. E. and J. I. Rose  
The origin of the Levantine Emiran and implications for modern human dispersal into the Levant.

- 4:00 Bar-Yosef, D., J.-M. Tejero, O. Marder, O. Barzilai, I. Hershkovitz, R. Yeshurun, N. Schneller-Pels, R. Lavi and M. Goder-Goldberger  
Shell beads and “decorated” bone at the Early Upper Paleolithic of Manot Cave, Israel: symbolic expressions of early modern humans in the Levant.
- 4:15 Stiner, M. C.  
Finding a common band-width: causes of convergence and diversity in Paleolithic beads
- 4:30 Olszewski, D. I., M. al-Nahar, N. D. Munro, A. N. Pegrillo, M. Ramsey, B. F. Byrd and D. Schyle  
Wadi Madamagh (Jordan): behavioral diversity during the Last Glacial Maximum in the eastern Levant.
- 4:45 Hartman, G. and A. Brittingham  
Was the Younger Dryas of the southern Levant dry, or just cold? Stable isotope evidence from gazelle teeth.
- 5:00 Discussion
- 5:15 Business meeting