

**Paleoanthropology Society  
2017 Annual Meeting  
March 28 and 29  
Vancouver Hyatt Regency  
(Preliminary Program)**

**Posters**

**Tuesday, March: 28 4:00 – 6:00  
Plaza Ballroom**

**How do we interpret elevated Neanderthal  $\delta^{15}N$  levels?**

Alexander Allan, Jonathan Harding, Dennis Sandgathe, Mark Collard

**An experimental investigation into the impact of point dimensions, haft morphology and fixing method on the effectiveness of Neanderthal spears**

Philippe Aubin

**A high resolution microtomographic study of the StW 578 Pliocene hominid cranium from Sterkfontein Cave**

Amélie Beaudet, Jason L. Heaton, Travis R. Pickering, Dominic Stratford, Ron J. Clarke

**Paleoecology across the Pleistocene- Holocene: The small mammal assemblage of Kotias Klde, Georgia**

Miriam Belmaker, Geordon Taylor, Nino Jakeli, Tengiz Meshveliani, Anna Belfer-Cohen, Ofer Bar-Yosef

**The implications of faunal abundance for Pleistocene paleoenvironments in the Turkana Basin, Northern Kenya**

Lorena Benitez, Catherine Llera, Maryse Biernat, David R. Braun, Ashley S. Hammond, David B. Patterson, W. Andrew Barr

**Txina Txina: a Later Stone Age site from the Limpopo basin in southern Mozambique**

Nuno Bicho, João Cascalheira, Jonathan Haws, Célia Gonçalves, Mussa Raja, Lino André, Michael Benedetti, Ana Gomes, Milena Carvalho, Brandon Zinsious

**Archaeological support for the Beringian standstill hypothesis: human occupation of the Bluefish Caves site (Yukon Territory, Canada) during the Last Glacial Maximum**

Lauriane Bourgeon, Ariane Burke, Thomas Higham,

**?Pre MIS 3 occupation of Mochena Borago Rockshelter, SW Ethiopia**

Steven A Brandt, George A. Brook, Minassie Girma Tekelemariam, Nathan Lawres, Abebe Mengistu Taffere, Ben Smith, Ralf Vogelsang

**Technological variability in the Middle Stone Age of Mozambique: preliminary results**

Joao Cascalheira, Nuno Bicho, Celia Goncalves, Jonathan Haws, Mussa Raja

**The depositional context and spatial patterning in the hominin-bearing layers of Block 2 at Dmanisi, Georgia**

Reed Coil, Martha Tappen, Reid Ferring, Maia Bukhsianidze, David Lordkipanidze

**Foraging along blue highways: preliminary faunal and taphonomic investigations at SM-1, a late Middle Stone Age site in the Blue Nile Basin of Ethiopia**

Christopher A. Davis, John Kappelman, Lawrence Todd

**Middle and Upper Paleolithic in Southeastern Europe: preliminary results from excavations at two newly discovered sites in Serbia**

Tamara Dogandžić, Sahra Talamo, Vesna Dimitrijević, Tobias Lauer, Vera Aldeias, Shannon P. McPherron, Dušan Mihailović

**Percussion technology and the potential for residue analysis at FLK N, Olduvai Gorge**

Julien Favreau, Makarius Itambu, Patrick Lee, Robert Patalano, Laura Tucker, Enrique Baquedano, Manuel Domínguez-Rodrigo, Audax Mabulla, , Julio Mercader

**Preliminary findings from Sare River, an early Pleistocene Oldowan site on the Homa Peninsula, Kenya**

Emma M. Finestone, Thomas W. Plummer, Peter W. Ditchfield, Elizabeth Whitfield, Thomas Vincent, Scott A. Blumenthal, Laura C. Bishop, James S. Oliver, David R. Braun, Jonathan S. Reeves, Raquel Lamela-Lopez, Jennifer A. Parkinson

**Applying systematic sampling survey to evaluate Stone Age settlement in the Elephant River, Limpopo basin, SW Mozambique**

Celia Goncalves, Ana Gomes, Joao Cascalheira, Mussa Raja, Nuno Bicho, Jonathan Haws

**Assessing the effects of fluvial abrasion on bone surface modifications using high-resolution 3-D scanning**

Merve Gumrukcu, Matthew Muttart, Michael Pante

**Insights into the importance of raw material availability for Paleolithic settlement: survey results from the Resava and Jasenica River Valleys, Serbia**

Eric Heffter, Dušan Mihailović

**Stratigraphy and new ESR mollusc dates for Middle and Late Pleistocene deposits at Bir Tarfawi, Western Desert, Egypt**

Christopher L. Hill, Bonnie A.B. Blackwell, Aislinn E. Deely, Jonathan A. Florentin, Andrés C. Montoya, Impreet Singh, Joel L.B. Blickstein, Anne R. Skinner

**Breakage patterns of long bone articular ends, Hadar, Ethiopia: Implications for assessing cause of death of A.L. 288-1 ('Lucy')**

Matthew Hill, John Kappelman, Lawrence Todd, Fantahun Zelelew

**The evolution of throwing: the current state of knowledge**

Gabrielle Jackson, Mark Collard, Dennis Sandgathe

**Inferring Early Stone Age tool type from cut marks on fossil bones using high-resolution 3-D scanning**

Trevor L. Keevil, Michael C. Pante, Jay S. Reti

**Evaluating language-related asymmetry in endocasts using non-rigid diffeomorphic image registration**

Lindsey Kitchell

**Early Acheulean large flake prepared core technology: debating the distinctiveness of The Victoria West method**

George M Leader

**Digging for the past, present, and future: bridging Maasai and paleoanthropological practices in Olduvai Gorge, Tanzania**

Patrick Lee, Robert Bird, Mariam Bundala, Julien Favreau, Makarius Itambu, Samson Koromo, Charles Mather, Robert Patalano, Laura Tucker, Enrique Baquedano, Manuel Domínguez-Rodrigo, Audax Mabulla, Julio Mercader

**Local raw material utilization at the Upper Paleolithic site of Shuidonggou Locality 2, Ningxia (China)**

Sam C. Lin, Fei Peng, Nicolas Zwyns, Jialong Guo, Huimin Wang, Xing Gao

**3D fracture patterns in the lumbar vertebra and tibia of A.L. 288-1 ('Lucy') are consistent with perimortem trauma**

Janet M Mattox, Christopher A. Davis, Brett Nachman, Daniel L. Petersen, Wiley Akins, Mulugeta Feseha, Matthew Hill, Richard A. Ketcham, Lawrence Todd, Adrienne P. Witzel, Fantahun Zelelew, John Kappelman

**A Late Middle Stone Age lithic landscape in the Eastern Lake Victoria Basin**

Alison F. Mant-Melville, Nicholas Blegen, J. Tyler Faith, Christian A. Tryon, Kirsten H. Jenkins, Emily J. Beverley, Daniel Peppe

**Time-averaging and the spatial scale of regional cultural differentiation in Paleolithic assemblages**

Galen Miller-Atkins, L.S. Prem,

**Macroscopic investigation of raw material properties: comparisons with mechanical properties tests**

Joanne Munga, David Braun

**Amino acid racemization (AAR) dating of ostrich eggshell (OES): experimental testing of the effect of natural campfire burning on OES values**

Serrina Nasrollahi, Chris Florian, Gifford H. Miller, John Kappelman, Lawrence Todd

**Hominin, gorilla, and chimpanzee *opponens pollicis* crest morphological variation**

Wesley Niewoehner

**A quantitative assessment of trampling-induced modification to bone surfaces**

Emily Rebecca Orlikoff, Trevor L. Keevil, Michael C. Pante

**Assessing likelihood of convergence in flake attributes**

Jonathan Paige, Charles Perreault

**That high lonesome sound: Last Interglacial lithic technologies from Melikane Rockshelter, Lesotho**

Kyra Pazan, Brian A. Stewart

**Effect of wrist extension on human throwing accuracy: a case study with implications for *Australopithecus***

Angela Pena, Alison Brooks

**EcoPlis: human occupations in the Pleistocene ecotones of River Lis (Portugal): the 2015-2016 results**

Telmo Pereira, Vania Carvalho, Trenton Holliday, Eduardo Paixao, Patricia Monteiro, Joao Marreiros, Sandra Assis, Marina Evora, Rita Dias, Carlos Duarte, Roxane Matias, David Nora, Joana Pereira

**Settlement dynamics in Eastern Germany during the Middle Paleolithic**

Andrea Picin

**Bipedalism evolved from knuckle-walking: evidence from 3D geometric morphometric**

**analyses of thoracic and lumbar vertebral shape of *Homo sapiens*, *Pan troglodytes*, *Pongo pygmaeus*, and *Papio hamadryas***

Kimberly A. Plomp, Una Strand Vidarsdottir, Darlene Weston, Keith Dobney, Mark Collard

**A promising new and simple estimator of initial mass for retouched flake tools**

Cornel M. Pop, Will Archer, Zeljko Rezek, Marcel Weiß, Tamara Dogandžić, Sam Lin, Shannon P. McPherron

**GaJj17: an MSA lake shore site at East Turkana**

Kathryn L. Ranhorn, Tamara Dogandžić, Silindokuhle S. Mavuso, Ssebuyungo Christopher, Logan Van Hagen, Courtney E. Jirsa, Michael J. Ziegler, Shannon L. Warren, J.W.K. Harris, David R. Braun

**The relevance of 'precious' raw material engagements to discussions of group cohesion and interaction in the French Upper Paleolithic**

Sarah Ranlett

**Preliminary study of bioavailable strontium ( $87\text{Sr}/86\text{Sr}$ ) and assessment of diagenesis at Olduvai Gorge, Tanzania: proposed research and methodology**

Laura Tucker, Julien Favreau, Makarius Itambu, Patrick Lee, Robert Patalano, Enrique Baquedano, Manuel Domínguez-Rodrigo, Audax Mabulla, Julio Mercader

**Selectivity among Early Pleistocene hominins: new evidence from the Koobi Fora Formation**

Kristen Tuosto, Samantha Ascoli, David Braun, Susana Carvalho, Rene Bobe, Mark Sier, Jonathan Wynn, Jack W. K. Harris, Matthew Caruana, David Patterson

**Volumetric differences in the upper ribcage of extant hominoids with implications for hominid evolution**

Jeanelle Uy, John Hawks

**U-Th dating of ostrich eggshell: understanding the relationship between eggshell microstructure and diffusion and implications for sample preparation**

Jessica Valdes, Staci L. Loewy, Jay L. Banner, John Kappelman, Lawrence Todd

**The Pleistocene and early Holocene archaeological record of Barrow Island, northwestern Australia: early and sustained evidence for mixed use of coastal and arid interior settings**

Professor Peter Veth, Dr Tiina Manne, Kane Ditchfield, Fiona Hook, Ingrid Ward, Mark Basgall, David Zeanah, Jane Skippington, Chae Byrne

**Human pelvic morphology from an integrative context**

Cara Wall-Scheffler, Helen Kurki, Ben Auerbach,

**The North of Kuruman project: newly discovered Middle and Later Stone Age rockshelter deposits in the Kalahari Basin at Gamohana Hill, Northern Cape, South Africa**

Jayne Wilkins, Benjamin J. Schoville, Kyle S. Brown, Robyn Pickering, Andy I. R. Herries, Benjamin Collins

**Ancient Middle Stone Age climates at SM-1 in NW Ethiopia as revealed by stable isotopic sclerochronology**

Lani Wyman, Neil Tabor, John Kappelman, Lawrence Todd,

## Oral Presentations

**Tuesday, March 28: 9:00 – 12:15**

**Georgia A/B**

9:00 Introduction

9:15 **Pleistocene habitat suitability correlated with genetic variation in the Southern African baboon (*Papio ursinus sensu lato*): implications for hominin demography in southern Africa**

Benjamin J Schoville, Riashna Sithaldeen,

9:30 **Primate stone tool use for paleoanthropologists**

Michael Haslam

9:45 **The siliciclastic deposits of Jacovec Cavern, Sterkfontein: Reconstructing depositional environments in karst systems.**

Silindokuhle Siyabonga, Dominic Justin

10:00 ***Australopithecus anamensis* paleoenvironments in the Omo-Turkana basin using stable isotope analysis of tooth enamel from mixed feeding taxa**

Laurence Dumouchel, Jonathan G. Wynn, René Bobe, Michelle S. M. Drapeau, Denis Geraads

10:15 **Using tephrostratigraphy to link cores to outcrops at Olduvai Gorge, Tanzania**

Lindsay J. McHenry, Jackson K. Njau, Ian G. Stanistreet, Harald Stollhofen, Alan Deino, Kathy Schick, Nick Toth

10:30 Discussion

**10:45 Phytolith Palaeolandscape during Bed II at Olduvai Gorge (Tanzania)**

Makarius Peter Itambu, Manuel Domiguez-Rodrigo, Audax Mabulla, Charles Egeland ,  
Fernando Diez-Martin, Alfredo Pérez González, Manuel Santonja Gomez ,  
Julien Favreau, Laura Tucker, Patrick Lee, Robert Patalano, Julio Mercader

**11:00 Taxonomic distinctions in the 3-D micromorphology of tooth marks with application to feeding traces from Middle Bed II, Olduvai Gorge, Tanzania**

Matthew V Muttart, Michael C Pante, Ignacio de la Torre, Jackson K Njau

**11:15 The feeding behavior and ecology of early Homo at HWK-EE, Bed II, Olduvai Gorge**

Michael Pante, Jackson Njau, Ignacio de la Torre, Lindsay McHenry

**11:30 FwJ70 – a butchered bone surface assemblage from the Okote Member of Koobi Fora, Kenya**

Stephen R. Merritt, Eleanor A. Cordiner, Silindokuhle Mavuso, Kelly Fetchenhier,  
Elliot Greiner

**11:45 Site formation and integrity of FxJ20 AB, Koobi Fora, Kenya: implications for interpretation of Oldowan hominin fire use in the Early Pleistocene**

Sarah K Hlubik, David R Braun, Francesco Berna, Craig Feibel, JWK Harris

12:00 Discussion

**Tuesday, March 28: 2:00 – 4:00  
Georgia A/B**

**2:00 Fire and Genus Homo: new evidence from ESA contexts at Wonderwerk Cave, South Africa**

Francesco Berna, Robert Jacob, Liora Kolska-Horwitz, Candice Koopowitz, Michael Chazan

**2:15 Molecular isotopic analysis reveals details on the environmental context of the earliest Acheulean at Olduvai Gorge**

Robert Patalano, Julien Favreau, Makarius Itambu, Patrick Lee, Laura Tucker,  
Enrique Baquedano, Fernando Diez-Martin, Manuel Domínguez-Rodrigo, Audax Mabulla,  
David Manuel Martín Perea, David Uribelarra, Julio Mercader

**2:30 The cultural material from the Lower Palaeolithic site of Marathousa 1, Megalopolis, Greece: preliminary results**

Vangelis Tourloukis, Nicholas Thompson , Eleni Panagopoulou, , Domenico Giusti,  
Panagiotis Karkanis, Georgios Konidaris, Katerina Harvati

**2:45 ESR dating ungulate tooth enamel within the Paleolithic Layers at Velika Balanica, Serbia**  
Bonnie A.B. Blackwell, Kalyani Gopalkrishna, Dušan Mihailović, Mirjana Roksandic,  
Joel I.B. Blickstein, Anne R. Skinner

**3:00 Early and Middle Stone Age survey in the upper reaches of the Fourth Cataract, Sudan**  
Deborah I. Olszewski, Sidney Rempel, Bulent Arıkan, Brenda J. Baker

**3:15 Paleoenvironmental reconstruction of the Florisbad spring site based on a micro-geoarchaeological approach**  
Michael B. Toffolo, James S. Brink, Cornie van Huyssteen, Francesco Berna

3:30 Discussion

**Poster Session 4:00 – 6:00**  
**Plaza Ballroom**

**Wednesday, March 29 9:00 – 12:15**  
**Georgia A/B**

**9:00 Temporal link established between two Middle Stone Age sites (south coast, South Africa) using the Toba Isochron**  
Eugene Smith, Simen Oestmo, Jayne Wilkins, Racheal Johnsen, Minghua Ren, Amber Ciravolo, Shelby Fitch, Zenobia Jacobs, Panagiotis Karkanas, Erich Fisher, Curtis Marean

**9:15 Open-air in situ 72-thousand-year old stone tool knapping events at Vleesbaai, Pinnacle Point, South Africa**  
Simen Oestmo, Jayne Wilkins, Josh Giesken, Jamie Hodgkins, Zenobia Jacobs, Panagiotis Karkanas, Curtis W. Marean

**9:30 The Symbolic Response: Middle Stone Age ochre use in its social and environmental context at Pinnacle Point 5-6, Western Cape Province, South Africa**  
James R. McGrath, Jocelyn Bernatchez

**9:45 Middle Stone Age ochre contexts in Blombos Cave, South-Africa: a macro- and micro-contextual investigation**  
Magnus M. Haaland, Christopher E. Miller, Karen L. Van Niekerk, Christopher S. Henshilwood



**10:00 Ethnography of red ochre use by pastoralists and hunters in Kenya**

Stanley H. Ambrose, Andrew M. Zipkin, Mercy Gakii, David Coulson, Matthew W. Magnani

**10:15 Construction of an ochre source strontium isoscape in the Kenya Rift Valley for provenience studies of archaeological and rock art mineral pigments**

Andrew M. Zipkin, Stanley H. Ambrose, Craig C. Lundstrom, Gideon Bartov, Mercy Gakki

10:30 Discussion

**10:45 Through a volcanic glass darkly: viewing modern human origins with the lens of raw material transport.**

Nick Blegen, Frank Brown

**11:00 The archaeology of the 1929-1932 excavations at Skhul (Israel)**

Christian Tryon, Ravid Ekshtain, Paul Goldberg, Laure Metz,

**11:15 A case for a natural history of the Neanderthals**

Mark Collard, Dennis Sandgathe

**11:30 A semiotic approach to the evolution of symboling capacities with implications for claims of 'modernity' in early human groups**

Elisabeth V Culley

**11:45 You know the drill: a new method of differentiating stone age bead making techniques**

Jennifer Miller, J Jeffrey Werner

12:00 Discussion

**Wednesday, March 29 2:00 – 6:00**

**Georgia A/B**

**2:00 C and N stable isotopes in Late Pleistocene - Holocene ostrich eggshells reveal distinct local paleoenvironments in East Africa during the MSA-LSA transition**

Elizabeth M. Niespolo, Warren D. Sharp, Christian A. Tryon, J. Tyler Faith, Jason Lewis, Todd E. Dawson

**2:15 Manot 1 calvaria and recent modern human evolution: an anthropological perspective**

Israel Hershkovitz, Bruce Latimer, Omry Barzilai, Ofer Marder

**2:30 Synthesizing the evidence on Middle and Upper Paleolithic diets in Europe and SW Asia**

Eugène Morin, John D. Speth, Julia Lee-Thorp,

**2:45 Arma Veirana: a new site in Liguria (northwestern Italy) preserving the Middle-to-Upper Paleolithic transition**

Jamie Hodgkins, Caley M. Orr, David Strait, Christopher E. Miller, Fabio Negrino, Julien Riel-Salvatore, Marco Peresani, Stefano Benazzi, Geneviève Pothier Bouchard, Claudine Gravel-Miguel, Dominique Meyer

**3:00 Lithic miniaturization, bipolar reduction, and late Pleistocene lithic technology at Boomplaas Cave, South Africa**

Justin Pargeter

3:15 Discussion

**3:30 Animal exploitation strategies during the Early Upper Paleolithic: the EUP fauna from Mughr el-Hamamah, Jordan (45-39 kcal BP)**

Jamie L. Clark

**3:45 Living and dying in the Epipalaeolithic: a 20,000-year-old cremation from Eastern Jordan**

Lisa A. Maher, Danielle A. Macdonald, Jay T. Stock

**4:00 A geometric morphometric and non-metric analysis of the Oase 1 and Muierii 1 mandibles from Romania**

Katerina Harvati, Mirjana Roksandic

**4:15 A comparative empirical analysis of Uluzzian lunates and coeval backed pieces**

Julien Riel-Salvatore

**4:30 Magdalenian images and notations**

Andrea Castelli

**4:45 Exploring technological organization through geometric morphometrics: the case of Aurignacian projectile points made of antler, bone and ivory**

Luc Doyon, Ariane Burke, Francesco d'Errico, Heidi Katz Knecht

**5:00 A chronological framework connecting the early Upper Palaeolithic across the Central Asian piedmont**

Kathryn E. Fitzsimmons, Radu Iovita, Tobias Sprafke, Michelle Glantz, Katharine Horton, Tyler Beeton, Saya Alipova, Galymzhan Bekseitov, Yerbolat Ospanov, Jean-Marc Deom, Renato Sala, Zhaken Taimagambetov

5:15 Discussion

5:50 Business meeting