**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 δ15N 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

**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

**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

**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

**Early and Middle Stone Age survey in the upper reaches of the Fourth Cataract, Sudan**

Deborah I. Olszewski*,* Sidney Rempel*,* Bulent Arikan*,* Brenda J. Baker

**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 beginning of the Later Stone Age in coastal East Africa**

Ceri Shipton

**Preliminary study of bioavailable strontium (87Sr/86Sr) 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 **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

10:15 ***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

10:30 Discussion

10:45 **Using tephrostratigrapy 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

11:00 **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

11:15 **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

11:30 **FwJj70 – 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 FxJj20 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 Uribelarrea*,* 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 Karkanas*,* Georgios Konidaris*,* Katerina Harvati

2:45 **New fossil hominins from Jebel Irhoud (Morocco)**

Jean-Jacques Hublin*,* Abdelouahed Ben-Ncer*, ,* Sarah E. Freidline*,* Simon Neubauer*,*

Matthew M. Skinner*,* Inga Bergmann*,* Adeline Le Cabec*,* Stefano Benazzi*,*

Katerina Harvati*,* Philipp Gunz

3:00 **The age of the *Homo sapiens* fossils and Middle Stone Age assemblages from Jebel Irhoud (Morocco)**

Shannon McPherron*,* Daniel Richter*,* Rainer Grün*,* Renaud Joannes-Boyau*,* Teresa Steele*,*

Fethi Amani*,* Mathieu Rué*,* Paul Fernandes*, ,* Jean-Paul Raynal*,* Denis Geraads*,*

Abdelouahed Ben-Ncer*,* Jean-Jacques Hublin

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