

CAPA-ACAP 2018 Schedule of Papers and Posters

Titles marked with an asterisk (*) are entered into the student prize competition.

Thursday, November 1st

Gunnery Ballroom

8:00am-5:30pm

Poster Session 1. Includes posters from the White Symposium, the Diversity Symposium, and Contributed Posters on Paleopathology, Primatology, Anthropometry, Skeletal Biology, and Bioarchaeology

- Authors will be present for questions during the coffee breaks.

- Posters associated with a specific symposium are marked with an “(S)” and the short symposium title is listed in parentheses after the poster title.

1. (S) Toyne, J.M, Knudson, K.J. and Verano, J.W. Moche Mobility and Isotopic Inconsistencies: Taking on Research Challenges with Various Methods (*White symposium*)
2. (S) Maggiano, C., White, C., Stern, R., Salvador Peralta, J. and Longstaffe, F.J. Micro-isotopic Oxygen Variation Across Sequential Tissues in Human Bone: Seeking Sub-Seasonal Resolutions of Analysis (*White symposium*)
3. (S) Howie, L.A., Horn III, S.W. and Graham, E. Hey, Who Invited the Pots to the Isotope Party? Intersecting Material and Biological Identities and Social Network Dynamics at the Maya City Lamanai, Belize (*White Symposium*)
4. Lacerte, J.R. and Barrett, C.K. A Case of Probable Ankylosing Spondylitis among the Chiribaya of Southern Coastal Peru*
5. Motley, J. and James, A. Evidence of an Epidemic at the Church of Santa Maria Assunta at Pernosano, Italy*
6. James, A.R. A Probable Case of Type II Klippel-Feil Syndrome at the Early Modern Church of Santa Maria Assunta at Pernosano (AV, Italy)*
7. Britton, T.L. Local Perceptions of Primates and Protected Areas: An Ethnoprimateological Study of Conservation Challenges in the Pacoche Wildlife Refuge, Manabi, Ecuador*
8. MacAusland, A.D. The Effects of Rainforest Habitat Zones on Mantled Howler Monkey (*Alouatta palliata*) Feeding Behaviours
9. Merrigan-Johnson, C. Inter-sex Comparative Study on Tree Usage and Canopy Usage in the Mantled Howler Monkey (*Alouatta palliata*)
11. Garlie, T. and Joo Choi, H. Anthropometric Variation and the Theoretical Impact on Fit Accommodation for Military Clothing and Equipment for the United States Army
12. Valladares, K. Social Identities in Chimú Society: A Bioarchaeological Analysis of Burials from Chayhuac Walled Complex in Chan Chan site, Peru*

Thursday, November 1st continued

13. Scott, A.B. and Fonzo, M. From Acid to Alkaline: The Variation in Soil pH at the 18th Century Rochefort Point Cemetery and its Relationship to Mortuary Practices and Previous Site Use
14. Albanese, J. Evidence of a Horse as a Funerary Offering in a Mycenaean Tholos Tomb on Kefalonia, Greece: A Case Study Illustrating the Value of a Systematic (Re-)Assessment of all Skeletal Remains
15. Halliday, J. and Albanese, J. An Alternative Theoretical Approach for Understanding Patterns of Human Variation using Identified Skeletal Collections*
16. Cooper, D.M.L., Harrison, K., Hiebert, B., Pratt, I., Andronowski, J., Swanston, T. and Varney, T. Synchrotron Radiation Applications in Biological Anthropology: An Update on Capabilities of the Canadian Light Source Synchrotron
17. Kendall, C., Bozek, P., Schroeder, L. Sexual Dimorphism and Population Variation of the Human Nasal Aperture in 27 Disparate Populations*
18. Shaver, S., Figura, K., Gooderham E., Bishop, B., Chervenka K., Garcia, C.T., João Valente, M., Albanese, J. and Cardoso, H. Data After the Fact? Field Photography to Post Hoc Hard Data*
19. Jewlall, E., Barr, K., Nelson, A.J., Laird, D.W. and Willmore, K.E. Examining the Link between Phenotypic Variation of the Skull and Variation in Development Using Two Mutant Mouse Models*
20. (S) Bogaert, K. Constructing Deviance: The Military Management of Male Behaviour During the First World War (*Diversity symposium*)

Armouries Ballroom

8:15am-10:40am

Podium Session 1

Symposium: The Odyssey and the Mentor: The Contributions of Dr. Christine D. White to Biological Anthropology & Beyond
Chairs: J Marla Toyne and Linda Howie

Biological anthropology has been transformed with the development of bioarchaeology and biocultural anthropology and certain scholars have been instrumental in fostering key advances in knowledge, practice, pedagogy and thinking. Such advances do not begin or end with the birth of a new idea or perspective. Rather, they emerge as part of an ongoing conversation among a wider community of peers, novices, masters and apprentices, as ways of doing and thinking are forwarded, reflected upon, discussed, built upon and reimagined.

This symposium celebrates the scientific, professional and personal contributions of Dr. Christine D. White along the “road to advancement”, in her roles as scholar, teacher, mentor, collaborator, colleague, and advocate for transdisciplinary research and training. Dr. White’s contribution to research on stable isotope analysis of human skeletal and mummified remains is well known; however, her scholarly activity extends well beyond this focus, encompassing a broad spectrum of osteological, paleopathological, and regional bioarchaeological projects, research development initiatives, professional service and more. We invite scholars to present new and revisited “findings” and/or to explore the nature of Dr. White’s contribution to the research dynamic at the heart of professional and academic development, and advancement of scholarly thought and practice. Traditional measures of scholarly impact, while important, offer a rather narrow and partial view of the totality of a scholar’s far-ranging influences.

Thursday, November 1st continued

Through this symposium we will examine the synergy and cooperative interactions that contribute equally to Dr. White's scholarly impact both in and beyond the halls of academe.

- 8:15am-8:25am Toyne, J.M. Introduction.
- 8:25am-8:40am Katzenberg, M.A. The Pioneering Contributions of Christine White to Stable Isotope Analysis in Bioarchaeology
- 8:40am-8:55am Longstaffe, F.J. Two Worlds United
- 8:55am-9:10am Schwarcz, H., Prowse, T. and Emery, M. Tracing the Movement of Humans with Isotopes: Following Chris' Lead
- 9:10am-9:25am Spence, M.W., Olsen, K., Cabrera, O. and Longstaffe, F. San Jose 520 and the Early Growth of Teotihuacan
- 9:25am-9:40am Dolphin, A.E. Dental Bioindicators: Crafting New Collaborations and Approaches
- 9:40am-10:10am COFFEE BREAK
- 10:10am-10:25am Williams, L.J. and Wheeler, S.M. "What You Get Is How You Do It": Exploring the Mother-Infant Nexus at Kellis 2 Cemetery
- 10:25am-10:40am Hodgetts, L.M., Olsen, K.C., Morris, Z.H., Wheeler, S.M., Williams, L.J., Metcalfe, J.Z. and Szpak, P. Models of Graduate Supervision in Higher Education: What Chris White Taught us about Collaboration

- see Toyne et al. (1), Maggiano et al. (2) & Howie et al. (3) for poster contributions to this symposium

Armouries Ballroom

- 10:40am-2:45pm **Podium Session 2**
Contributed Papers: Research in Stable Isotopes, Bioarchaeology, and Forensics
Chairs: Yarida Chinique de Armas and Andrea Waters-Rist
- 10:40am-10:55am Chinique de Armas, Y., Rodriguez Suarez, R., Reyes, I., Buhay, W. and Roksandic, M. Stable Isotopes and Starch Analyses: New Insights into the Use of Plants among Archaic Age Populations in Cuba
- 10:55am-11:10am Munkittrick, J., Grimes, V. and Scott, A. Investigating Childhood Lead Exposure of early 18th Century French Inhabitants from the Fortress of Louisbourg, Nova Scotia
- 11:10am-11:25am Bishop, K.G., Garvie-Lok, S., Haagsma, M. and Karapanou, S. A Stable Isotope Analysis of the Shep-Herd Relationship in Thessaly, Greece during the Hellenistic Period*

Thursday, November 1st continued

- 11:25am-11:40am Gooderham, E., Matias, A., Walshaw, S., Albanese, J. and Cardoso, H.F.V. A Comparative Growth Study in Medieval Islamic and Christian Portugal: Linear and Appositional Growth as Markers of the Social Environment*
- 11:40am-11:55am Sawchuk, E., Pfeiffer, S., Cameron, M., Grillo, K. and Hildebrand, E. Bioarchaeology of Pillar Site Cemeteries around Lake Turkana, Kenya: Insights into Eastern Africa's First Herders
- 11:55am-12:10pm Pfeiffer, S., Harrington, L. and Sealy, J. An Unusual Group Burial from the Late Holocene, South African Cape Coast
- 12:10pm-2:00pm LUNCH – Student Professional Development Luncheon
- 2:00pm-2:15pm Beresheim, A.C., Pfeiffer, S.K. and Grynepas, D.M. Ontogenetic Changes to Cortical and Trabecular Bone Microstructure in a Non-Weight Bearing Bone
- 2:15pm-2:30pm Nahal, H., Marinho, L., Sparrey, C. and Cardoso, H.F.V. Assessing the Impact of High versus Low Velocity Thoracic Trauma: A Study of Experimental Rib Fracturing using Juvenile Pigs (*Sus scrofa*)*
- 2:30pm-2:45pm Lamer, M., Spake, L. and Cardoso, H.F.V. Testing Methods for Juvenile Sex Estimation Using Long Bone Metaphyseal and Diaphyseal Measurements*

Armouries Ballroom

2:45pm-5:30pm

Podium Session 3

Symposium: Strength in Diversity: Integrating Intersectional Perspectives into Contemporary Biological Anthropology

Chairs: James Gibb, Lauren Gilhooly, Samantha Stead

One of the main goals of contemporary biological anthropology is to document and understand the diversity of primate (human and non-human) biology across time and space. Like many scientific fields, biological anthropology is largely dominated by cis, straight, white men. How can a discipline tasked with representing primate diversity do so effectively if the longstanding biases in research funding, hiring practices, and the peer review process are not addressed? Integrating perspectives on sex, gender, sexual orientation, race, disability and language will push the theoretical and methodological endeavors of biological anthropology in new and valuable directions.

Several anthropological associations are making diversity and inclusive research methods a focus of both annual meetings and written reports. The American Association of Physical Anthropologists (AAPA) has been a prominent voice in these conversations, hosting podium sessions and panels dedicated specifically to addressing the slow, and often tumultuous, path towards diversity in academia. These individuals have encouraged explicit conversation while producing several research papers on the disastrous effects of harassment and discrimination on the well-being and career trajectory of students, postdoctoral fellows, and both adjunct and tenure track faculty within biological anthropology. Furthermore, they have demonstrated that this type of discrimination has profound impacts on our entire discipline and its ability to produce innovative and robust research.

We intend to follow the lead of the AAPA organizers and facilitate an environment where diversity of thought and lived experiences are not only welcome, but essential to the success of any biological

Thursday, November 1st continued

anthropology conference. Our session aims to bring together academics whose work transcends traditional approaches to science (i.e., patriarchal, heteronormative, Western-centric), with the goal of overcoming these barriers within the field of biological anthropology. We have intentionally appealed to scholars from both biological anthropology and other disciplines to learn from the myriad ways that researchers are challenging the conventional methods used to conceptualize, carry out, and disseminate academic research. Lastly, this session aims to identify how we can make biological anthropology a more inclusive space for the diversity of human experiences that researchers engage with as they progress within academia and beyond.

2:45pm-3:00pm	Poirier-Poulin, S. In English Please! Reflections on the Dominance of English Language in Primatology*
3:00pm-3:15pm	Schall, J.L. Assessing Sex and Gender in Forensic Anthropology*
3:15pm-3:45pm	COFFEE BREAK
3:45pm-4:00pm	Goodwin, R. Between the Needle and the Knife: Queer Theory and the Intersections of Gender in the Western Canadian Arctic
4:00pm-4:15pm	Gibb, J.K. Queering the Developmental Origins of Health and Disease: Towards More Inclusive Research and Policy Frameworks*
4:15pm-4:30pm	Stead, S.M. “Queer”ying ethology: An Assessment of the Literature on Same-Sex Sexual Behaviours in Non-Human Animals*
4:30pm-4:45pm	Lee, K.M.N. Crippling Menstruation: Reframing Menstrual Research using Critical Disability Studies and Crip Theory*
4:45pm-5:00pm	Meloche, H. and Albanese, J. Challenging Perceptions of Race in Forensic Anthropology: What Forensic Software Tells You it is Doing Versus What it is Actually Doing*
5:00pm-5:30pm	Discussion, led by Lauren Schroeder and Emőke Szathmáry

- see Bogaert (20) for a poster contribution to this symposium

Friday, November 2nd

Gunnery Ballroom (morning); Gunnery and Armouries Ballroom (afternoon)**

8:00am – 5:00pm **Poster Session 2** - Includes posters from the 3D Imaging symposium, the Paleoanthropology symposium, the Mobility symposium, and Contributed Posters on Stable Isotopes, Forensics, Human Biology, Biomechanics/Mobility and Primatology

- Authors will be present for questions during the coffee breaks.
- Posters associated with a specific symposium are marked with an “(S)” and the short symposium title is listed in parentheses after the poster title.

Friday, November 2nd continued

** Due to the concurrent podium sessions on Friday afternoon, poster boards will be distributed between the Gunnery Ballroom and Armouries Ballroom over the lunch break (by the conference organizers), with afternoon symposium-affiliated posters being put in the corresponding podium session ballroom.

1. (S) Nelson, A.J. Knowles, N. and Kusins, J. The Skulls of Robert the Bruce: Photogrammetry, Artistry and Paleopathology (*3D – Imaging Symposium*)
2. (S) Saly, A. Close-Range Photogrammetry for Research: Still versus Video (*3D – Imaging Symposium*)*
3. (S) Smith, A.C. Use of Basic Fuchsin Stain to Demonstrate Lamellar Band Interactions (*3D – Imaging Symposium*)
4. (S) Cuerrier-Richer, E. A Pilot Study for the Re-Evaluation of Skeletal Ancestry Traits using Three-Dimensional Technology (*3D – Imaging Symposium*)*
5. Skalic, C., Albanese, J. and Dagdag, A. A Comparison of Fordisc 3.1 and AncesTrees using Cranial Measurements from an Identified Sample
6. Forbes, M., Finaughty, D., Miles, K. and Gibbon, V. Inaccuracy of Accumulated Degree Day Models to Estimate Post-Mortem Intervals in Two Terrestrial Habitats in Cape Town, South Africa*
7. Williams, D., McKerracher, L., Moffat, T., Barker, M. and Sloboda, D.M. Food Insecurity During Pregnancy among Women who Attend a Pregnancy Support Program in Hamilton, Ontario, from the Perspective of Public Health Workers
8. Mercado Malabet, F. The Influence of Reproductive Systems on the Probability of Extinction in Social Mammals: A Preliminary Simulation of the Influence of Breeding Systems on the Population Viability in *Eulemur fulvus* and *E. mongoz**
9. McConnan Borstad, C., Offenbecker, A. and Katzenberg, M.A. Do Dietary Isotope Values Reflect Non-Local Individuals at Prehistoric Paquime (Casas Grandes), Mexico?
10. Meijer, J., Dolphin, A.E., Yakymchuk, C. and Gervers, M. Interpreting Medieval Mobility from Burials at the Rock-Hewn Church of St. Georges, Gurat (France): Insights from Stable Isotope Analysis*

Friday, November 2nd continued

11. Prowse, T., Smith, T., Warrick, G. and Glencross, B. Canid Dietary Patterns: Stable Isotope Analysis from Five Huron-Wendat Village Sites in Ontario, Canada
12. Smith, T., Brickley, M., Ríos, L., Martínez, B., García-Rubio, A. and Prowse, T. Individual Breastfeeding and Weaning Histories in a Sample of Children from 19th Century Madrid, Spain Using Stable Isotope Analysis of Incremental Dentine Sections*
13. Peacock, T., Bourbou, C., D'Ortenzio, L., Kahlon, B., Prowse, T. and Brickley, M. Regional Mobility and Vitamin D Deficiency in Avenicum, Roman Switzerland (1st-3rd C. CE)*
14. Parker, K. Shorter, Taller, Weaker, Stronger: Changing Bone Geometry in Medieval Denmark*
15. MacKinnon, M. Correlations Between Upper and Lower Limb Robusticity in Forager Children Throughout Ontogeny*
16. (S) Stock, J.T. and MacIntosh, A.A. Diaphyseal Strength Indices and the Interpretation of Prehistoric Terrestrial and Marine Mobility (*Mobility Symposium*)
17. Richer, S.M. and Megyesi, M.S. Burial Location in the Manila American Cemetery and Memorial (MACM) and its Relationship to Taphonomic Condition of Skeletal Remains
18. (S) Kilpatrick, J. Quantifying the Center of Mass in Bifacial Tools (*Paleoanthropology Symposium*)*
19. (S) Doran, K. The Fascination with Neandertals: Tracing Academic and Popular Attitudes from 2000 to 2018 (*Paleoanthropology Symposium*)*

Armouries Ballroom

8:00am – 9:15am

Podium Session 4

Symposium: 3D imaging: From the Macro to the Micro, from the Lab to the Field

Chairs: Ashley C. Smith and Alexandra Saly

While not a novel approach to assessing bone, 3D imaging has graduated to a more viable and reliable tool in recording and assessing both bone and the scene. As this symposium will demonstrate, the use of various 3D imaging modalities such as photogrammetry, laser-scanning imaging, laser scanning confocal microscopy, scanning electron microscopy, CT and microCT imaging that allow for more accurate landmark measurements, especially with regards to circumferential and longitudinal measurements of bone, as well as bone in situ both in the body and in the ground. 3D imaging has also been proven to be useful in the identification of sex and ancestry, particularly with regards to the cranium and femur as exact models can be created. 3D imaging can further be used to match up fractured cranial pieces to reconstruct a fractured skull without needing to manually reconstruct the elements. Further, we can use 3D imaging in the use of reproducing objects from a bioarchaeological approach thus allowing for greater study and use in the lab and classroom setting.

Beyond looking at the full element, 3D imaging can also be used to in a microscopic setting, examining individual osteons and their in vivo organization and relationships of individual lamellar bands. This demonstration can further be extended to the relationship between various osteons in a 3D plane. By better understanding the relationship between osteons, anthropologists will have a greater sense of the construction of bone and its function.

Friday, November 2nd continued

Lastly, 3D imaging can be used not just in the lab but in the field as well, providing a permanent record of the scene that can later be used in reconstruction and demonstrative purposes in both a medico-legal and bioarchaeological setting. Imaging at a scene varies in scale and purpose. Documenting the excavation procedure or capturing an outdoor scene to demonstrate relationships of objects to the landscape all provide details in a single inclusive manner often segmented in traditional scene methods of mapping and photography.

Overall, attendees of the symposium will have a greater understanding of the use and variability of 3D equipment and its use in both the field and the lab, and even extending into the classroom. Further, with newer technologies, physical anthropologists are able to work in more efficient ways for both time and cost. More importantly, this symposium will demonstrate that we are no longer confined to skeletal material itself but that 3D models and casts will allow us to better demonstrate osteological materials and their contexts to students and young scholars. newer technologies, physical anthropologists are able to work in more efficient ways for both time and cost. More importantly, this symposium will demonstrate that we are no longer confined to skeletal material itself but that 3D models and casts will allow us to better demonstrate osteological materials and their contexts to students and young scholars.

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| 8:00am-8:15am | Ward, D.L., Silcox, M.T. and Viola, T.B. Challenges and Opportunities: Bony Labyrinth Shape Quantification |
| 8:15am-8:30am | Selig, K.R. and Silcox, M.T. Using Three-Dimensional Dental Topographic Analysis to Examine Dietary Change in an Early Group of Eocene Primates; the Microsyopine Microsyopids |
| 8:30am-8:45am | Spake, L., Meyers, J. and Cardoso, H.F.V. Reliability of Dental Development Scoring Methods across 2D and 3D CT Visualization Techniques* |
| 8:45am-9:00am | Friedlander, H., Mayne Correia, P., Adeeb, S. and Stone, D. Differentiation of Perimortem Trauma from Heat Fractures in Cases of Cremation |
| 9:00am-9:15am | Berezowski, V., Rogers, T.L. and Liscio, E. Evaluating the Morphological and Metric Sex of the Human Skull using 3D Technology* |
- see Nelson et al. (1), Saly (2), Smith, A.C. (3) & Cuerrier-Richer (4), for poster contributions to this symposium

Armouries Ballroom

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| 9:15am – 12:00pm | Podium Session 5
<i>Contributed Papers:</i> Research in Paleopathology, Human Biology, Paleoprimatology and Primatology
<i>Chairs:</i> Maria Liston and Michael Schillaci |
| 9:15am-9:30am | McCuaig, M and Schillaci, M.A. Preliminary Analysis of Non-Specific Stress Indicators and Survivorship in a Sample of Ancestral Native Americans* |
| 9:30am-9:45am | Brickley, M.B. Taking a Biological Approach to Cribra Orbitalia and Porotic Hyperostosis: Potential Answers to Long-Standing Questions |

Friday, November 2nd continued

- 9:45am-10:15am COFFEE BREAK
- 10:15am-10:30am Liston, M.A. What Else Troubled the Lepers? Co-morbidities in an Early Christian Cemetery in Thebes, Greece
- 10:30am-10:45am Kirkpatrick, C.L. and Campbell, R.A. Warriors or Martyrs? Untangling the Trauma in Egypt's Fag El-Gamous Cemetery*
- 10:45am-11:00am Fonzo, M., Scott, A.B. and Duffy, M. A Preliminary Analysis of Parasite Egg Recovery Methods from Pelvic Soil Samples*
- 11:00am-11:15am Sharman, J. Anthropological Theory in Action: Liminality in Older Adults and Individuals with Chronic, Serious or Terminal Disease and the Role of Community Programs in Their Re-Assimilation
- 11:15am-11:30am Shattuck, E.C. and Samson, E.R. The Effects of Childhood Adversity on Sleep Quality using Midlife in the United States (MIDUS) Data
- 11:30am-11:45am Holmes, A.C. Preliminary Report on the Phylogenetic Systematics of European *Pliopithecoidea**
- 11:45am-12:00pm Kalbitzer, U., Bergstrom, M.L., Campos, F.A., Carnegie, S.D., Jack, K.M., Melin, A.D. and Fedigan, L.M. The Link Between Female Sociability and Infant Survival in Capuchins: The Roles of Direct and Indirect Connections, Food Competition, and Energetic Status
- 12:00pm-1:45pm LUNCH

Armouries Ballroom

1:45pm – 3:15pm

Podium Session 7

Symposium: Developmental Origins of Disease: Biocultural and Evolutionary Insights from Working with Vulnerable Human and Non-Human Populations
Chairs: Ruby Fried, Tracey Galloway, and Luseadra McKerracher

Non-communicable diseases including heart disease, type II diabetes, and cancers now represent leading causes of illness and death, accounting for upwards of 70% of mortality globally (WHO 2017). As such, understanding their etiology has critical implications for public health as well as for making sense of contemporary human variation. Research focusing on the Developmental Origins of Health and Disease (DOHaD) strongly suggests that early life experiences affect health, resilience, wellbeing, and disease risk later in life. However, the bulk of this work has focused on lab studies of rodent models and on epidemiological patterns in Western or Westernized populations. So, it is unclear whether these apparent causal relationships between developmental exposures and health and disease expression are the same across all human populations, or among our closest relatives, nonhuman primates. If some or many of these relationships differ in magnitude, direction, or etiology, how and why do they vary? If they hold across both human and nonhuman primates, how and why do they do so, and how are these disease expressions understood, explained, and experienced by the populations affected?

This symposium, entitled “Developmental origins of disease: Biocultural and evolutionary insights from working with vulnerable human and non-human populations”, will investigate some of the key tools biological anthropology can offer to address these questions. In particular, it will do two things:

1. Introduce the role of evolutionary ecological and biocultural theories in predicting and measuring adaptations and/or environment-dependent responses that may account for the development of these disease phenotypes.
2. Provide a broader perspective on links between early life exposures and later life non-communicable disease risks by empirically examining these phenomena in living and archaeological populations and in non-human primates.

This session brings together experts studying various aspects of DOHaD including but not limited to commensal microbes, hormone function, nutritional composition of parental and infant diets, genetic/genomic conflicts, and the external environment in small-scale human populations from Asia, Africa, and the Americas and in non-human primates. Speakers will highlight the role of biocultural and evolutionary ecological theories in novel or counterintuitive predictions. They will also discuss the ways in which their findings may be relevant to medical practice or public health policy.

1:45pm-2:00pm	Sloboda, D. An Introduction to the Developmental Origins of Health and Disease (DOHaD): Insights from Animal Model Studies, and Implications for the Bioanthropology of Health
2:00pm-2:15pm	D’Ortenzio, L., Kahlon, B. and Brickley, M.B. Sinking Our Teeth into Vitamin D Deficiency and the Developmental Origins of Health and Disease Hypothesis (DOHaD)
2:15pm-2:30pm	Fried, R.L. and Kuzawa, C.W. Biological Memories: Examining Early Indicators of Intergenerational Health Among Alaska Native Women and Children living in Anchorage*
2:30pm-2:45pm	Kim, A.K., Ryan, C.P., McDade, T.W., Kobor, M.S., Borja, J. and Kuzawa, C.W. Early Life Social Experiences as Predictors of Adult Depression in Cebu, Philippines: Investigating the Mediating Roles of the HPA Axis and DNA Methylation*
2:45pm-3:00pm	McKerracher, L.J., Moffat, T. and Sloboda, D.M. Food Insecurity, Pregnancy Complications, and the Developmental Origins of Health and Disease: New Insights from the Mothers to Babies (M2B) Hamilton Study
3:00pm-3:15pm	East, K.E. and Greff, M. Shaping Stress at the End of Life: Hair Cortisol Analysis in the Terry Collection
3:15pm-3:45pm	COFFEE BREAK

Armouries Ballroom

3:45pm – 5:00pm

Podium Session 8

Symposium: All the Ways we Move: Bioanthropological Perspectives on Movement

Chairs: Michelle Cameron and Rebecca Gilmour

Human and non-human primate movement is explored in a number of ways across the subfields of biological anthropology. Some scholars look at smaller scale interactions between muscle and bone by analyzing muscle tissue, trabecular structure, and bone biomechanics. Others examine larger scale population dynamics on regional and global scales using genetic analyses, population affinity studies, and medical anthropology approaches. As biological anthropologists use a diverse range of methods and theoretical perspectives, this session addresses movement in an interdisciplinary way. Presenters will incorporate morphological, genetic, archaeological and geographic evidence to explore how movement, broadly construed, impacts both our physical bodies and our social lives. The papers presented will focus on innovative ways that researchers are engaging with activity and mobility. This symposium aims to unite biological anthropologists who look at how humans and our closest relatives move and inspire creative collaborations in the analysis of movement.

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| 3:45pm-4:00pm | Harrington, L., Osipov, B. and Kurki, H.K. Exploring the Development of Upper Limb Strength through Asymmetry Measures in the Arm and Forearm |
| 4:00pm-4:15pm | Komza, K. and Skinner, M.M. Trabecular Bone Structure of the First Metatarsal and its Implications for Plio-Pleistocene Hominin Locomotion* |
| 4:15pm-4:30pm | MacIntosh, A., Longman, D., Roberts, R., Wells, J.C.K., and Stock, J.T. Selective Sacrifice of Reproductive Tissues under Ultramarathon-Related Energetic Stress: The Adaptive Significance of Variation in Lean and Fat Mass among Men and Women |
| 4:30pm-4:45pm | Rabey, K.N. Exploring Frailty in Locomotion of Non-Human Animals |
| 4:45pm-5:00pm | Gilmour, R.J. and Cameron, M.E. Movers and Shakers: Integrating Innovative Perspectives on Movement in Biological Anthropology |

- see Stock & MacIntosh (16) for a poster contribution to this symposium

Gunnery Ballroom

1:45pm – 3:15pm

Podium Session 6

Symposium: Palaeoanthropology Research by Canadian Scholars

Chair: Mirjana Roksandic

Update on research projects by Canadian scholars, members of the Palaeoanthropology Society of Canada (PASC) and their students. This forum is meant for the exchange of ideas by scholars and students of human evolution in its most encompassing meaning: including the study of primates, environment, tools, morphology and ancient DNA. In addition to presentations and posters, the forum will feature short research updates.

Friday, November 2nd continued

- 1:45pm-2:00pm Tocheri, M.W., Veatch, E.G., Sutikna, T., McGrath, K., Wahyu Saptomo, E., Jatmiko and Helgen, K.M. Temporal Shifts in the Distribution of Murine Rodent Body Size Classes at Liang Bua (Flores, Indonesia) Reveal New Insights into the Paleoecology of *Homo floresiensis* and Associated Taxa South Australia, Australia
- 2:00pm-2:15pm Chazan, M., Kolska Horwitz, L., Ecker, M., Morris, D., Koopowitz, C., Rhodes, S. and Berna, F. Renewed Excavations at Wonderwerk Cave, Northern Cape Province, South Africa
- 2:15pm-2:30pm Vallerand, A., Mailloux-Root, G., Laliberto, A., Negrino, F. and Riel-Salvatore, J. Middle and Upper Paleolithic Lithic Technology at Riparo Bombrini (Liguria, Italy)
- 2:30pm-2:45pm Brun, C., Martin-Moya, D., Negrino, F., Ribot, I. and Riel-Salvatore, J. Photogrammetry, Data Visualization and Public Outreach: A Case-Study from Riparo Bombrini
- 2:45pm-3:00pm Roksandic, M., Lindal, J., Radovic, P., Blackwell, B. and Mihailovic, D. The First Confirmed Neanderthal from the Central Balkans
- 3:00pm-3:15pm 5 minute research updates from the world of paleoanthropology
- Drapeau, M.S.M., Bisson, M.S. and Burke, A. Documenting the Prehistory of Zambia
 - Schroeder, L. and Ackerman, R.R. The Hybrid Phenotype of the “Coywolf”: A New Mammalian Model for Detecting Hybridization in Hominin Evolution.
- see Kilpatrick (18) & Doran (19) for poster contributions to this symposium
- 3:15pm-3:45pm COFFEE BREAK

Gunnery Ballroom

- 3:45pm – 5:00pm **Podium Session 9**
Contributed Papers: Research in Primatology
Chairs: Mary Pavelka
- 3:45pm-4:00pm Pavelka, M., Hartwell, K., Notman, H., Wickberg, E. and DiFiore, A. Spider Monkey Social Organization: Does Genetic Evidence Support Observational Data?
- 4:00pm-4:15pm Gilhooly, L.J. and Colquhoun, I.C. Eye Contact, but Not Food, is Associated with Tourist-Directed Aggression from a Hybrid Macaque Group in Sabah, Malaysia*
- 4:15pm-4:30pm Steffens, T.S., Ramsay, M.S. and Lehman, S.M. Enter the Matrix: Habitat Use by *Microcebus spp.* in a Fragmented Landscape
- 4:30pm-4:45pm Samson, D.R., Vining, A. and Nunn, C.L. Sleep Influences Cognitive Performance in Lemurs
- 4:45pm-5:00pm Bolt, L.M., Schreier, A.L., Voss, K.A. and Barrickman, N.L. Natural and Anthropogenic Edge Effects and their Influence on Monkeys and Vegetation in a Fragmented Tropical Rainforest in Costa Rica

Saturday, November 3rd

Gunnery Ballroom

8:00am-12:00pm

Poster Session 3 - Symposium: Education in Biological Anthropology

Chairs: Karyn Olsen and Sherry Fukuzawa

Note: There will be a podium introduction to this poster session from 9:30am to 9:40am in the Armouries Ballroom.

This poster session will showcase an increasing focus on teaching and learning in biological anthropology at higher education institutions across Canada. In recent years, the American Association for Physical Anthropologists (AAPA) has devoted time at their annual meeting to exploring issues related to teaching and learning in the discipline. Following the AAPA's lead, the annual meeting for the Canadian Association of Physical Anthropologists provides an excellent opportunity to bring together educators interested in reflecting broadly on the core knowledge, skills, and values we want to develop among our future students.

Learning environments in biological anthropology can differ significantly depending on the focus. As such, biological anthropology is uniquely positioned to provide diverse experiential and active learning experiences for our undergraduate and graduate students. Research demonstrates that engaging students in participatory learning has positive impacts on learning and student success. Ultimately, our goal is to explore the "what", "how", and "why" of bioanth-focused courses, laboratories, field schools, and other learning contexts, and to offer discipline-specific perspectives on teaching and learning.

Recognizing that educators in the discipline hold a variety of positions at their home institutions, we plan to engage research- and teaching-focused faculty, contract faculty, graduate students, and community collaborators in this symposium. The expectation is that contributing presentations will be diverse but with shared emphasis on pedagogical approaches in the discipline. Authors will be present for questions during the coffee break.

1. Fukuzawa, S., Dorland, S. and Criger, C. Students Reflect on the Relationship between Anthropology and Indigenous Peoples in Canada
2. Holder, S. and Reitsema, L.J. Engaging Bioarchaeology Undergraduate Students through Writing in the Discipline*
3. Jamieson, J. and Wood, C. Integrating Indigenous Perspectives in Teaching Practice: Benefiting from the Wisdom of Social Learning and Narrative
4. Waters-Rist, A.L. Creating a Free Massive Open Online Course (MOOC) in Bioarchaeology: Reflections on Two Years of Experience with "Osteoarchaeology: The Truth in Our Bones"
5. Ranlett, S., Eastham, L., Champaneri, P., Mahjoub, I., Smith, A., Yasui, E. and Fukuzawa, S. A Year in the Virtual Mystery Project: Current Results and a Multidisciplinary Future
6. Wood, C. and Saly, A. Creating and Excavating a Cemetery: Experiential Learning for Advanced Bioarchaeology
7. Olsen, K.C., Morris, Z. and Moreiras Reynaga, D. Engaging Biological Anthropology Students in Online Distance Education Courses

Saturday, November 3rd continued

Armouries Ballroom

8:00am-9:30am

Podium Session 10

Symposium: If These Walls Could Speak: Anthropological Engagement with Hospital Research

Chairs: Madeleine Mant and Alyson Holland

Contemporary hospitals are widely viewed as physical representations and symbols of health and healing; however, the historical use of hospitals is complex and intersects with socioeconomic status, medical knowledge, and political power. Hospitals began as charitable houses for those who were both poor and sick and rose to the bastions of health care that they now represent. Bioarchaeology and medical anthropology often draw upon datasets related to hospitals, institutions intimately tied to health and health care. The skeletal remains excavated from hospital cemeteries are important comparative samples, though the position of these individuals as patients may or may not be the explicit target of research. In medical anthropology, the interplay between hospitals as institutions, the personnel who exist within them, and the diseases they treat become a critical nexus.

This symposium will explore the representation of hospitals in anthropological work by highlighting researchers who work explicitly with hospital data. The presenters use a historical lens to illuminate the role that hospitals have played over the last few centuries and to bring attention to the evolving nature of the hospital as an institution. These papers form a series of temporally distinct snapshots, including discussing the interactions between hospitals and specific socio-cultural groups, such as Indigenous peoples or 19th-century merchant sailors, as well as the social impact of specific diseases, such as tuberculosis and the 1918 influenza, whose public perceptions are supported and maintained through medical institutions and datasets. The use of hospital datasets to capture demographic data and life events will be examined through the lens of the 1918 influenza in Malta, the healthcare experience of 19th-century British merchant sailors, and 19th- and early 20th-century Canadian peoples, including survivors of the Brandon Residential School. Finally, this session will conclude with a longitudinal look at shifting societal perspectives on hospitals and doctors to highlight the links between historical research and current healthcare discussions.

This session will highlight the perspectives of students of anthropology and medicine, emerging academics, and established scholars from institutions across Canada. Our goal is to engender discussion surrounding the vulnerable bodies of those experiencing illness through time and engage with anxieties over health care access, ethical questions of interrogating historical hospital records, and the privileged position of biomedicine in the West.

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| 8:00am-8:15am | Mant, M. For Those in Peril On and Off the Sea: 19th-Century Port Medicine at the St. John's General Hospital |
| 8:15am-8:30am | Hackett, P. Saskatchewan Population Health and Evaluation Research Unit: The Dynevor Hospital and First Nations Health Care in Manitoba and Beyond, 1908-34 |
| 8:30am-8:45am | Nichols, K., Meyers, J., Gooderham, E., Spake, L. and Cardoso, H. Examining the Impact of Stress Experienced Prior to Admission to the Brandon Indian Residential School* |
| 8:45am-9:00am | Burke, S. Trauma and Childhood Tuberculosis in the 19th/20th Century: A Syndemic Perspective |

Saturday, November 3rd continued

- 9:00am-9:15am Sawchuk, L.A. and Tripp, L. Trains and Transmission: The Spread of 1918 Influenza in Malta
- 9:15am-9:30am Holland, A. Doing Right in the House of God: Historical Perspectives to Current Challenges in the Societal Role of the Doctor
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- 9:30am-9:40am Olsen K. Introduction to Poster Session 3: Education in Biological Anthropology
- 9:40am-10:10am COFFEE BREAK

Armouries Ballroom

- 10:10am-11:40am **Podium Session 11**
Symposium: Unraveling the Disease Experience: Larry Sawchuk's Contribution to Medical Anthropology and Beyond
Chair: Lianne Tripp

This symposium will delve into the long and dynamic research and teaching career of Larry Sawchuk. As a professor at the University of Toronto, Scarborough in the Department of Anthropology for 44 years, he has mentored and influenced the research pathways of many Canadian Anthropology undergraduate and graduate students. Many of his students have gone on to become Anthropology professors, while others are working, researching and/or teaching in the field of health.

Larry's research has primarily focused on the bio-demography and health of small-scale populations in the 20th century Mediterranean. Early in his career, during the nascent years of the study primatology in Canada, Larry study the demography of the Barbary macaques in Gibraltar. Mid-career, Larry contributed to the deconstructing the mortality experience of the remains from the 19th century St. Thomas cemetery in Belleville Ontario. Throughout his career (as well as the present day), Larry's research topics have focused on infectious diseases: cholera, influenza, tuberculosis and undulant fever.

Participants will discuss an array of subjects. Ex-graduate students will discuss how fieldwork experience and co-authoring with Larry help shaped them as the scholars that they are today, especially in the study of infectious disease in the historical context. Other participants, whose study of contemporary health issues and policymaking, will discuss how Larry incited their interest in the field as undergraduate students and what policies they are currently developing in Toronto. One presentation will discuss how Larry's knowledge of epidemiology aided in PhD research of palaeopathology. Long-time colleagues and friends, will talk about Larry's 40 plus year contribution to the study of historical demography and health of the small-scale population of Gibraltar. The series of talks will showcase how Larry's longstanding influence on past and current students, and the far-reaching impact his research and teaching has had on many anthropology and health researchers. This symposium will bring together scholars from the fields of medical anthropology, bio-archaeology & paleopathology, public health and health sciences.

- 10:10am-10:20am Tripp, L. Introduction.
- 10:20am-10:35am Herring, A. and Bogaert, K.L. The Evolution of Lawrence A. Sawchuk
- 10:35am-10:50am Glencross, B. Social Epidemiology in Bioarchaeological Context

Saturday, November 3rd continued

10:50am-11:05am Tripp, L. and Burke, S.D. Case Studies and Colonies

11:05am-11:20am Gamble, B. Dr. Sawchuk: Inspiring Leader and Mentor

11:20am-11:35am Vanderlinden, L.D., Simone, M., Harvey, C., Thibault, S. and Speakman, J. No Services, City of Toronto Creating a Hookah By-Law: Toronto's Recent Policy Experience

Armouries Ballroom

11:35am-12:00pm Student Prizes, Acknowledgements, and Closing Remarks