

THE CANADIAN ASSOCIATION FOR
PHYSICAL ANTHROPOLOGY



L'ASSOCIATION CANADIENNE
D'ANTHROPOLOGIE PHYSIQUE



ANATOMICAL BLOGGER, after ANDREAS VESALIUS by Mike Licht shared under CC-BY

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P R E S I D E N T ' S M E S S A G E

IAN CALQUHOUN



Suddenly, a hectic Winter/Spring 2018 academic term is behind us -- for some reason, term two always seems shorter to me versus the Fall term! At any rate, I hope that folks

weathered the inevitable flurry of end-of-term grading followed by the requisite marking crunch to get final exams assessed. With that behind us, May is (finally!) warming up and I hope people are looking forward to research projects over the summer months (and generating data that can be reported upon at this year's Annual Meeting!).

Meanwhile back on the ranch here in London, our crack brain-trust of Local Organizers -- Drs. Andrew Nelson, Andrea Waters-Rist, Jay Stock, and yours truly -- have been busy getting things lined up for Western's hosting of the 46th CAPA-ACAP Annual Meeting (an overdue stint as host of the Annual Meeting... we last hosted way back in 2004 (!!); a memorable Annual Meeting it was, too, as the first report of "the Hobbit", *Homo floresiensis*, hit the pages of Nature on the first day of the conference!).

Our venue for the Annual Meeting will be the same as it was in 2004 -- the London Delta Armories Hotel (<http://www.deltahotelondon.com/>). We will be kicking things off with the Opening Reception on Wednesday, October 31st (All Hallows' Eve!); as has been the Association's tradition in the past, paper sessions, symposia, and posters will run all day on

both the Thursday and Friday, with things wrapping up at midday on Saturday. Friday will be a busy day, with the Business Meeting after the presentation sessions are done for the day, followed by the Annual Meeting Banquet on Friday evening.

Speaking of the Business Meeting, I think we will be looking at a *very* full Agenda of matters. Between now and then, one matter that still needs to be addressed is completion of the formation of a Presidential Nomination Committee, as I am now (already!) in the third year of my term as CAPA-ACAP President. While I raised this at the 2017 Business Meeting in Edmonton (and, subsequently in Issue #2 of the 2017 Newsletter), no steps were taken to form that Presidential Nomination Committee for the election of a President for the 2018-2021 term. According to the Association's Constitution, the Presidential Nomination Committee is to be composed of two Full Members and a Student Member who will be charged to identify at least two nominees to stand for election as the Association's President. Within just the last couple of days, I have been notified that we now have two Full Members who are willing to serve on the Presidential Nomination Committee -- we still need a Student Member to complete the Committee, but are expecting that we will find a volunteer within the next short while and the Committee will then be able to initiate its search for potential nominees to move forward as candidates for election as the Association's next President. Any Student Member of CAPA-ACAP who is interested in volunteering to perform this service to the Association can contact me at colquhou@uwo.ca; it's not too late for us to sort out the Presidency of the Association for 2018-2021 by this fall's Annual Meeting!

Still with the composition of the CAPA-ACAP Executive, I sorry to report that Genevieve Maltais-Lapointe has recently informed me that, for personal

reasons, she does not feel she can complete her term as our Secretary-Treasurer (which runs through 2019). She will see 2018 out in her post, but I will be looking for another committee of volunteers to nominate candidates for Secretary-Treasurer (which is also an elected position in the Association's Executive) to finish Genevieve's term. Failing that, we could alternatively complete a search for an individual who would be willing to complete the final year of Genevieve's term (which is how my term as Secretary-Treasurer began), and then look to have an election of a new Secretary-Treasurer to serve from 2020-2024. I've enjoyed working with Genevieve and although we had some unexpected issues crop up along the way, we didn't encounter anything we couldn't handle! On behalf of the Association, I want to thank Genevieve for her service as a member of the CAPA-ACAP Executive.

Looking ahead, an idea I raised at last year's Business Meeting to add an "Ask a Physical Anthropologist" function to the Association's website is moving ahead. Just this week, I've been in touch with our website designer/maintenance expert about

initiating this function -- sounds like it will be a fairly straightforward step that will link Membership Form info on the area(s) of expertise that Members have self-identified to a keyword listing that will enable the media and/or general public to target particular inquiries they might have (e.g., skeletal biology, osteology, bioarchaeology, primatology, forensic anthropology, etc.). Individual members will also have the option to opt-out of being approached as an "Expert" by the media or general public. Watch for specific instructions in the near future on the launch of this outreach tool. It will be interesting to see how we might be able to raise the profile of our Association with this online outreach tool!

So, there's definitely a lot on the go at present (which is why I say the 2018 Business Meeting is shaping up to have a chock-full Agenda!). In the meantime, as I sign-off to my final "Message from the President", let me say the last three years seem to have passed by extremely quickly, but it has been a profound honour and pleasure to serve as CAPA-ACAP President!

In the meantime, here's to everyone having a successful and fruitful "research season", and we'll see you all in London this fall (Oct 31 – Nov 3)!

MESSAGE FROM THE STUDENT REPRESENTATIVE

SARAH DUIGNAN, MCMASTER UNIVERSITY

DEAR CAPA-ACAP STUDENT MEMBERS,

There's always a certain energy that comes with the close of the Winter semester and the beginning of the Spring and Summer semester. For some, it means finally starting fieldwork - getting to explore new places, communities, perhaps even new countries! For others, it might mean starting comprehensive exams (gulp), writing up proposals, or finalizing those edits to your thesis. Regardless of what stage you're at, spring always marks a beginning in some form, and a chance to channel that new energy after a particularly nasty winter!

I've been thinking a lot about how our world is shifting and the unique position that biological anthropologists hold as knowledge-holders lately. Particularly how we, as young researchers, have a power in broader platforms than those who came before us, with social media and with the growth of more informal knowledge translation platforms and journals. One thing we do not necessarily get training for is how to share our work in unconventional ways. While it is still so important for our careers to work on peer-reviewed journal articles, present at conferences, and mingle with other professionals, I find there are more and more opportunities for us to share our work with people outside of academia and I would encourage you to take advantage of these - be it podcast interviews, blogs, YouTube channels, local art galleries or events, or anything else that is a reliable (or consistent) platform that features young researchers. Don't be afraid to get creative with how you showcase your work! If you are interested, please feel free to email me at duignase@mcmaster.ca and I would be happy to recommend some ideas to get you started on this.

Something that is increasingly focused on in the media sphere is mental health and wellbeing, particularly for graduate students. For all student members, this is something I would really like to explore and converse about with you more in the coming year. There's an

element of "Imposter Syndrome" I find may come into play in how we chose when and where to disseminate our research - we're just starting out, we don't have the same expertise or years of experience as the respected and seasoned biological anthropologists out there. This feeling can be debilitating, particularly as you get deeper and deeper into your analysis or fieldwork - and it's important to check in with yourself and see how you are feeling, in terms of your worth, productivity, and (*most importantly*) wellbeing. Having a pal that you can touch base with to talk about these mental barriers and wellbeing is a really great way to build a community of support and keep yourself going like the anthropological rockstar you are!

As Student Rep, I've been building a wide range of blog posts, videos, and other resources that I will be compiling into a PDF resource for graduate student members of CAPA-ACAP. It's filled with inspiring stories and articles that I use for the low days, reminding me that these sorts of struggles aren't mine alone, and I would like to share this with you in the hopes that you use this as motivation too. It will also help you explore what sorts of feelings are common place, and where and when to seek help for mental health and wellbeing as a graduate student in Canada. Stay tuned for this!

**AS ALWAYS, I
WISH YOU ALL
THE BEST THIS
SUMMER IN YOUR
PERSONAL AND
PROFESSIONAL
ADVENTURES!**

SARAH DUIGNAN



DEPARTMENT NEWS

UNIVERSITY OF WATERLOO

It has been another busy year here in the Department of Anthropology at UWaterloo. Dr. Maria Liston has survived her long term as Chair and is off to lead a fieldschool in Sicily over the summer. She is currently supervising two Masters students, Emily Schaljo (Thesis: "Osteology in Klenia, Greece: Analyses of the Human Skeletal Remains from the Early Helladic Burials") and Gillian Seymour (Thesis: "Investigating Blunt Force Trauma and Biases with the Skeletal Population of Gurat, France"). This summer, Dr. Dolphin is starting a new project at the Advanced Photon Source near Chicago, titled "Examination of Health and Environmental Related Stress Markers in Human Deciduous Teeth Using Rapid Scan X-ray Fluorescence Imaging", in collaboration with Dr. Ian Coulthard of the Canadian Light Source, Saskatoon. She has also become a member of the new Waterloo Centre for Microbial Research. Dr. Dolphin is a co-applicant on a newly awarded SSHRC Insight grant (Russell Adams, PI) titled "Tracing the long-term footprint of anthropogenic pollution in the landscape: evaluation of the evidence from a 5000-year-old industrialized landscape in southern Jordan". This funding will support a bioarchaeological fieldschool in Jordan for the summers of 2019 and 2020. This grant provides financial support for future graduate students interested in researching paleopollution and childhood exposures using microspatial chemical techniques. Dr. Dolphin would also like to extend her congratulations to Jacqueline Meijer for completing her recent Masters thesis titled "Exploring the Origins and Mobility of the Medieval Monastic Inhabitants of a Cave Church in Gurat, France using Strontium Isotope Analysis."

MCMASTER UNIVERSITY

Congratulations to the following students, who successfully defended their theses in Fall 2017:

Lori D'Ortenzio, PhD

Tooth Tales: What Internal Dental Structures Reveal about Vitamin D Deficiency and Age Estimation

Matthew Emery, PhD

The Biogeographic Origins of Iron Age Lapygians and Working-class Romans from Southern Italy

Laura Lockau, PhD

Skeletal Evidence for Vitamin D Deficiency and Chronic Respiratory Infections Across the Life Course at Two Roman Period Sites

Don't see your department here? Make sure to submit your news for the next issue!

Our recently reconstituted team of biological anthropologists have been up to a diverse, and interesting, array of research pursuits over the past several months (and getting media coverage at the same time -- with thanks to *Western News* for excerpted, and my lightly edited, material)! (submitted by Ian Colquhoun)

Andrew Nelson: Exploring Canada's oldest hockey stick

Andrew Nelson's imaging research has reached beyond mummies and bones to score a major assist in verifying the age of the oldest hockey stick known to exist – a piece of Canadiana that dates to the 1770s. Nelson and colleague Linda Howie determined that the stick was deliberately steam-bent from a fresh-cut piece of ash and was not simply an old branch that had conveniently grown into a hockey-stick shape. Their analysis, through CT scans and micro-CT scans, was highlighted in a five-minute *Daily Planet* segment on the Discovery Channel.

"To the best of my knowledge, nobody has ever done a CT scan of a hockey stick, much less a micro-CT scan," said Nelson, a bioarchaeologist whose analyses tend more towards Egyptian and Peruvian mummies than sports equipment. "This was cool. It's a real piece of Canadiana." "The trick is, is it a hockey stick made out of an old piece of wood – or is it a really old hockey stick?" At the blade end of the stick, CT scans showed wood grain stretched at the heel and compressed at the inward crook. "This wood was steam-bent to create a hockey stick," -- that means it was made, not just found!

Andrea Waters-Rist: Research shows long-lasting issues from inflexible clogs

Working collaboratively with a team of bioarchaeologists from Leiden University in the Netherlands, Andrea and her colleagues examined bones excavated during the relocation of a church cemetery in the tiny village of Middenbeemster, near Amsterdam. Using osteobiography and paleopathology methods as well as stable isotope analysis and mass spectrometry on nearly 500 skeletons from this dairy-farming area, they have been able to reconstruct the population's diet, disease, and overall health.

In particular, the research team detected a high prevalence of a rare type of bone lesion called osteochondritis dissecans (OD) in the foot bones. "They're like craters in the bones, at the joints, as if chunks of bone have just been chiselled away." Andrea and co-workers concluded that wooden shoes – the ubiquitous farmer clogs called *klompen* – were partly to blame. "These shoes are hard and inflexible and are poor shock-absorbers. Wearing these clogs, combined with heavy physical activity, these farmers suffered repeated micro-trauma to their foot bones." The study was published in the *International Journal of Paleopathology*.

Jay Stock: Western bio-archeologist analyzes oldest human fossil found outside Africa and Levant

Scientists have discovered an ancient bone in Saudi Arabia, dating back to 90,000 years ago. The relic is the oldest *Homo sapiens* fossil to have been found outside of Africa and the adjacent Levant region, and suggests that people travelled farther during the initial human migration into Eurasia than was previously thought.

An international consortium of researchers including Oxford University, the Max Planck Institute for the Science of Human History, and the Saudi Commission for Tourism and National Heritage, conducted fieldwork in the Nefud Desert of Saudi Arabia. There they discovered an ancient bone belonging to an early anatomically modern *Homo sapiens*, which they were able to directly date.

Prior to this discovery, it was widely believed that early ventures from Africa into Eurasia had been unsuccessful and had only ever extended to the neighboring Mediterranean forests of the Levant region. However, the results published in *Nature Ecology and Evolution*, detail the team's discovery made at Al Wusta, an ancient fresh-water lake located in what is now the Nefud Desert.

The excavation produced a small (just 3.3 cm long), but well preserved, human fossil which was clearly recognizable as a finger bone. To verify their finger bone find and date its origins, the team scanned the bone using high resolution tomography. Its shape was then compared to finger bones from other *Homo sapiens* and other early humans, such as Neanderthals, as well as species of nonhuman primates.

Jay Stock, currently an adjunct research professor in Western University's Department of Anthropology, collaborated with colleagues at the University of Cambridge, Liverpool John Moores University, and the University of Kent, Canterbury on the high resolution tomography analysis. "Our work represents the first time modern humans have been identified from the morphology of a finger bone," explains Stock, a new arrival at Western. "When we compared it to Neanderthals and other species we found differences that give us confidence that the fossil was from a member of our own species."

Using a dating technique called uranium series dating, a laser was used to make microscopic holes in the bone and measure the ratio between tiny traces of radioactive elements. These ratios revealed that the fossil was 88,000 years old. The combined results conclusively showed that the finger bone, the first ancient human fossil found in Arabia, belonged to a member of our species -- anatomically modern *Homo sapiens*. Other dates obtained from associated animals fossils and sediments converged to a date of approximately 90,000 years ago.

Michael Petraglia of the Max Planck Institute for the Science of Human History, adds: "The Arabian Peninsula has long been considered to be far from the main stage of human evolution. This discovery firmly puts Arabia on the map as a key region for understanding our origins and expansion to the rest of the world. As fieldwork carries on, we continue to make remarkable discoveries in Saudi Arabia."

Prehistoric women could best today's top athletes

Prehistoric women had stronger arms than even today's top female athletes, according to the first study to compare their relative bone strength. The women who lived 6,000 years ago worked so hard at repetitive upper-body labour every day, they developed strong muscles and bone, as shown by a recent report involving Jay Stock. Stock said women's activity in prehistory has been difficult to interpret, partly because of a wide variability in their bone changes, sex-specific skeletal differences, and a lack of modern comparative data. This study compared trends in the strength of upper and lower limb bones in prehistoric women with that of modern-day sedentary women and female endurance runners, rowers, and soccer players. Results showed much higher levels of loading on the prehistoric women's arm bones than their leg bones, and more arm strength than even today's dedicated female athletes. The study, published in the journal *Science Advances*, highlights how women's labour was crucial to the development of agriculture, Stock said. The findings also have important implications for today's women and health.

Ian Colquhoun: Assessing the Conservation Statuses of Madagascar's Lemurs

In 2012, following a cyclical conservation assessment by the Madagascar section of the IUCN/SSC Primate Specialist Group, virtually the entire infraorder Lemuriformes of Madagascar was suddenly declared to be the most endangered group of mammals on the planet. That led directly to the release in 2013 of a comprehensive Conservation Action Plan for Madagascar's lemurs (covering 2013-2016). A further cyclical review of that Action Plan was scheduled to be held in Antananarivo, Madagascar's capital, in September 2017, but was rescheduled to January 2018 because of an outbreak of pneumonic plague in and around the capital. Come this past January, the plague outbreak had not subsided, so the Lemur Conservation Assessment was again delayed. It finally took place earlier this month. While Ian, who had been invited in spring 2017 to join the Madagascar section of the IUCN/SSC Primate Specialist Group, was unable to make this May 2018 Lemur "Red List" Conservation Assessment workshop in Antananarivo due to scheduling complications (just couldn't make it work to jet off to Madagascar for the week!), he was able to follow the proceedings of the workshop thanks to daily email summaries of the workshop deliberations. The next step is to now update the information in the 2013-2016 Conservation Action Plan for each of Madagascar's 113 lemur species, essentially formulating a new Conservation Action Plan. Ian has been tapped to lead the update write-up on the black lemur (*Eulemur macaco*) -- the species that was the focus of his dissertation research! He will also contribute where he can to the conservation update write-ups on other lemuriform species.

Battles, Heather T. and Jones, Bobbie-Leigh (2018). The social geography of diphtheria mortality in Hamilton. *Ontario History*, 110(1): 88-107. <http://dx.doi.org/10.7202/1044327ar>

CAPA member Dr. Heather Battles (University of Auckland) co-authored this article with her 2014/2015 Summer Research Scholar, Bobbie-Leigh Jones. The paper presents the results of an expanded analysis of research first presented at the CAPA Annual Meeting in Hamilton in 2008.

Bolt, L.M., Schreier, A.L., Voss, K.A., Sheehan, E.A, Barrickman, N.L., Pryor, N.P, and Barton, M.C. The influence of anthropogenic edge effects on primate populations and their habitat in a fragmented rainforest in Costa Rica. *Primates* (2018) <https://doi.org/10.1007/s10329-018-0652-0>
(<https://link.springer.com/article/10.1007%2Fs10329-018-0652-0>)

Research on forest fragmentation in Costa Rica by CAPA member Dr. Laura Bolt and colleagues found that primates were not negatively affected by forest edges, although plants were.

Calce, S.E., Kurki, H.K., Weston, D.A., and Gould, L. (2018). Effects of osteoarthritis on age-at-death estimates from the human pelvis. *American Journal of Physical Anthropology* doi: 10.1002/ajpa.23595

New research by CAPA members revealing the effects of osteoarthritis on the accuracy of age estimations drawn from the os coxa joints.

Calce, S.E., Kurki, H.K., Weston, D.A., and Gould, L. (2018). The relationship of age, activity, and body size on osteoarthritis in weight-bearing skeletal regions. *International Journal of Paleopathology* 22: 45-53.

Further research by CAPA colleagues investigating the impact of multiple underlying factors on osteoarthritis expression in the weight-bearing joints of the vertebrae and lower limb.

Lockau, L. and Atkinson, S. (2017). Vitamin D's role in health and disease: How does the present inform our understanding of the past? *International Journal of Paleopathology* <https://doi.org/10.1016/j.ijpp.2017.11.005>

This article, co-authored by CAPA member Dr. Laura Lockau, surveys the clinical research concerning Vitamin D metabolism to explore the possible relevance to paleopathological research.

Mant, M. (2018). 'A little time would complete the cure': Broken bones and fracture experiences of the working poor in London's general hospital during the long eighteenth century. *Social History of Medicine*.
<https://doi.org/10.1093/shm/hky023>

This article explores the risks to life and limb experienced by the working poor of London, UK during the eighteenth century, using archival hospital records to reconstruct the patterning of fractures.

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HELENA RAMSAROOP, MA STUDENT, UNIVERSITY OF ALBERTA



I am a second year Master's student at the University of Alberta working under the supervision of Dr. Sandra Garvie-Lok. My research examines a Roman period skeletal sample from the Greek site of Kenchreai. I am using stable isotope analysis of carbon and nitrogen to examine the childhood diets of six individuals from Kenchreai.

I became interested in anthropology at a young age. When I was 10 years old, I remember flipping through books about archaeology and watching documentaries about ancient civilizations with my sister. It wasn't until I was applying to university that I realized I could turn this into a career.

I completed my undergraduate degree at McMaster University. I was so fascinated by anthropology from my first year as an undergraduate that I took advantage of every opportunity possible. I was involved with the McMaster Anthropology Society for all four years of my degree. I volunteered in the archaeology and physical anthropology labs, where I labeled specimens and worked on special projects. The lab experience I gained from volunteering provided me with the necessary qualifications to be hired as a research assistant in my third year. I worked at Sustainable Archaeology at McMaster Innovation Park, where I assisted in the sorting and cataloguing of archaeological materials. I also conducted research to validate and compile excavation details for sites housed at the Sustainable Archaeology facility.

My love for bioarchaeology was strengthened when I participated in the 2013 season of the Vagnari Bioarchaeological Field School in Italy. This was a five-week excavation of a Roman cemetery where I gained experience in archaeological excavation. After participating in this field school, I knew I wanted to continue with bioarchaeology moving forward.

During the fourth year of my undergraduate degree, I worked on an independent research project under the supervision of Dr. Tracy Prowse. For this project, I compiled age estimation data that had been collected for the sites of Vagnari and Isola Sacra. The purpose of this project was to compare age estimates from standard methods to the age estimates provided by transition analysis, in order to assess the accuracy of transition analysis. I was able to continue working on this project in the summer of 2015, when I was awarded an Undergraduate Student Research Award (USRA). This allowed me to work as a research assistant for the SSHRC-funded project "Social-Cultural Determinants of Community Wellbeing in the Western Roman Empire: Analysis and Interpretation of Vitamin D Status", under the supervision of Drs. Megan Brickley and Tracy Prowse. I traveled to Caen in Normandy, France to conduct research on transition analysis on the Lisieux-Michelet collection.



In Fall 2016 I began my graduate studies at the University of Alberta. I originally applied with a different project where I was going to use stable isotope analysis to examine migration in an Ottoman population from Greece. However, an earthquake occurred near the island where I was working, which prevented me from accessing my samples last summer. Shifting to my new project on Kenchreai that examines diet has granted me with an opportunity to gain a more holistic understanding and appreciation of isotopes.

Working on the Kenchreai remains offers an exciting opportunity. Previous isotopic analysis on this sample was conducted by my supervisor, who used bone collagen to examine diet. The results of this study provided tentative evidence that children and younger teenagers consumed less marine resources than adults. My Master's research is investigating this further by using microsamples of dentine from the teeth of the same individuals. Dentine microsampling allows for specific ages to be investigated because each microsample represents a specific period of time in childhood. This method allows for the investigation of diet within a few months of life, and offers the prospect of identifying periods of dietary change or nutritional stress in juveniles. The finding that the diet of adults and juveniles differed is intriguing, and echoes written records that suggest prized foods such as fish were consumed less often by children. By adding dentine stable isotope values, my study will provide further data to test this suggested dietary difference. It will also provide detailed

information on how the diets of a few individuals changed over the course of their childhood. By examining childhood stable isotope values at Kenchreai in the context of cultural and historical information for this population and time period, my work will improve our understanding of children's lives at Kenchreai and more generally in Roman Greece.

I will be obtaining my results this spring and will spend the summer analyzing and interpreting my data. I hope to present my thesis results at CAPA's next meeting, and I plan to pursue a PhD in the near future. I am interested in studying the bioarchaeology of marginalized individuals, most notably enslaved populations. I am interested in telling the stories of those who have been overlooked or forgotten in history. Learning about the applications of stable isotope analysis to study diet and migration during my Master's degree has provided a great basis for this research. My other research interests include paleopathology, mortuary archaeology, and ancient DNA analysis.

JESS MUNKITTRICK, PHD CANDIDATE, MEMORIAL UNIVERSITY OF NEWFOUNDLAND



History captivated me from a very young age. I would watch any documentaries I could get my hands on. When I was accepted to the University of New Brunswick for my undergraduate degree I knew I wanted to take as many history and archaeology courses as I could. I was introduced to so many new topics that I struggled to find a focus of research. One semester I was fascinated by what could be learned through examining human bones in a human evolution and osteology course and was convinced that I wanted to pursue a topic in that field. Yet, the next term I took a medieval history course and was engrossed with the social history of people during that period. This flip-flopping between these two fields continued throughout my undergraduate degree with each new course I took until I realized that I could study populations during the historic period using bioarchaeological techniques. Through many early modern and medical history courses I realized that I had a passion for studying health of peoples throughout the Atlantic World. Biological anthropology and archaeology courses as well as multiple bioarchaeology field and lab schools introduced me to the potential of human remains to speak to issues regarding health, diet, and mobility of peoples in the past.

I contacted Dr. Vaughan Grimes about pursuing a Masters degree at Memorial University of Newfoundland and was ecstatic when he suggested that there was a potential project

to examine diet and origins of individuals from a possible naval hospital cemetery from St. John's, NL. As part of this research I was able to combine my different passions to better examine the life histories of those buried at the Southside Cemetery. Using a multi-isotope and tissue approach I was able to address the question of the association of the cemetery, determining that the individuals were likely associated with the nearby St. John's Royal Naval Hospital (~1725-1825) rather than a later Anglican church (1879-1960). From there I was able to compare these individuals to previously published data from other Royal Naval Hospital cemeteries in England and Antigua to examine the variability of the sailors' diets. As part of this project I was also able to examine surviving hospital records at the National Archives in Kew, England to further contextualize the lives and deaths of the sailors buried in the cemetery.

As part of the readings I was introduced to the potential of lead trace element and isotope analyses to examine health and movement of people and goods throughout the Atlantic World. From there I decided to expand on my Master's research to focus on examining childhood health through lead trace element and isotope analyses from tooth enamel to better understand the variability of lead exposure in the Atlantic World. The overall objectives of this research include determining to what extent lead exposure affected children's health during the 18th to mid-19th centuries and if this changed with age and examining if there is a difference in lead sources and pathways between

the regions of Newfoundland, Nova Scotia, Antigua, and Great Britain. At the 45th Annual CAPA Meeting in Edmonton I presented a review of previous lead trace element and isotope bioarchaeological studies and made suggestions of best practice when designing and interpreting data. Here I emphasized the importance of considering childhood social theory and historical, archaeological, and physiological contexts during the interpretation of isotopic data.

During my graduate studies I have had amazing opportunities to team up with researchers from across Canada and abroad. The Memorial Applied Archaeological Sciences laboratory group has created a supportive and collaborative environment. We have been able to work together on comparing collagen extraction methods, work which resulted in a poster at the 43rd Annual CAPA meeting and later a paper in the 2016 issue of *Journal of the North Atlantic*. More recently we began working on reviewing isotopic approaches to mobility in bioarchaeology. Last summer I had the opportunity to spend two weeks working with Drs. Tamara Varney, Treena Swanston, Matt Brown, Reg Murphy, and graduate student Andrea Katelyn (Lakehead University) during which time I collected samples from a naval burial ground at Galleon Beach in Antigua. More recently, I have begun collaborations with Drs. Amy Scott and Vaughan Grimes to examine lead exposure in individuals buried in a historic cemetery in Louisbourg, Nova Scotia.

My main hobby outside of archaeology includes celtic music and performing. I have been playing the fiddle for almost 20 years during which time I have performed across the east coast of Canada and in the UK, Ireland, and France. Anywhere I am with my fiddle along has always been my “happy place” and I have met many amazing people and explored interesting places through the medium of music. I was able to pass along this passion through teaching fiddle for ten years in Fredericton, NB. I have been able to take that passion for learning and teaching and apply it through Teaching Assistant positions I have held during my graduate studies. I am so grateful to all the people and funding institutions that have made my research possible throughout my academic career. I am excited to continue researching in this constantly evolving field, and pass along my knowledge and experience to others.



Jess Munkittrick playing fiddle during the a fieldschool in Menorca, Spain
through the Sanisera Archaeology Institute.

Photo credit: McKenna Raney-Gray

FIELD SCHOOLS & COURSES

MADERAS RAINFOREST CONSERVANCY PRIMATE FIELD SCHOOLS IN COSTA RICA AND NICARAGUA

Are you looking for a primate field school?

Summer 2018 and Winter 2019 sessions are available in Ometepe, Nicaragua and La Suerte, Costa Rica:

IN LA SUERTE, COSTA RICA:

Summer 2018 session A: June 21 (fly in) to July 17 (fly out)

Summer 2018 session B: July 19 (fly in) to August 14 (fly out)

IN OMETEPE, NICARAGUA:

Winter: December 27, 2018 (fly in) to January 9, 2019 (fly out)

Apply now for Maderas Rainforest Conservancy's Primate Behavior and Ecology course! La Suerte is home to mantled howler monkeys, white-faced capuchin monkeys, and spider monkeys, while Ometepe is home to mantled howler and white-faced capuchin monkeys. Students will spend mornings observing and collecting data on monkeys, and afternoons attending daily lectures, participating in group discussions, and working on assignments. The course will culminate with independent projects on primate behaviour. This course is excellent preparation for graduate work in primatology, and a great way to gain field experience with wild primates.

TUITION / FEES:

Cost: \$2095 USD for course tuition, meals, lodging, and in-country transportation. Airfare is an additional cost. An annual scholarship is offered through the American Society of Primatologists. For more information, visit <https://www.asp.org/grants/scholarship/index.cfm>

For more information and to apply, visit <http://maderasrfc.org> or contact Dr. Laura Bolt at laura.bolt@mail.utoronto.ca

BRING YOUR OWN TEETH

a practical course on using teeth to investigate vitamin D deficiency

July 30th – August 3rd 2018

This five-day practical course is aimed at researchers who plan to use teeth to learn more about vitamin D deficiency and wish to use radiological and histological assessment techniques developed at McMaster (see references, + one paper currently in review and a fourth in preparation). The course will teach participants how to make a dental thin section by hand and will discuss factors to consider in obtaining radiological images. Analytical techniques for assessment of both dental slides and x-ray images will be covered. Each participant should bring two teeth (deciduous and/or permanent) that will be prepared, analysed and discussed during the course. Previously prepared thin sections can also be brought and there is no limit on the number.

The fees for the course are CAD\$795 per person. Fees will cover costs associated with lab work. Costs associated with transportation, subsistence and accommodation are the responsibility of those who attend, and although an information sheet will be supplied attendees must make all their own arrangements. Spaces on the course are limited to ensure that all attendees receive individual attention and analysis of the teeth brought can be completed. The course is run 'at cost' and there are no discounts.

For further information or make an expression of interest please email: anthdep@mcmaster.ca.

List of equipment and information on getting to and staying in Hamilton posted on ResearchGate as a Method

Techniques to be covered are described in:

D'Ortenzio, L. Ribot, I. Raguin, E. Schattmann, A. Bertrand, B. Kahlon, B. & Brickley, M. The Rachitic Tooth: The use of radiographs as a screening technique. In press. *International Journal of Paleopathology*.

D'Ortenzio, L. Ribot, I. Raguin, E. Schattmann, A. Bertrand, B. Kahlon, B. & Brickley, M. 2016. The Rachitic Tooth: A histological examination. *Journal of Archaeological Science*. 74:152-163.



Cremains Workshop



Basic information

Workshop dates: 23rd of July - 3rd of August 2018
and/or 6th - 17th of August 2018

Organiser: Institute of Archaeology, University of Warsaw

Lecturer: Dr Elżbieta Jaskulska, bioarchaeologist

Venue: Poland, Warsaw/Warszawa, Institute of Archaeology, University of Warsaw; Krakowskie Przedmieście 26/28

Tuition fee: 1500 EUR (without accommodation)

Prerequisites: Students or professionals (minimum 18 years of age) with practical knowledge of human osteology allowing for recognising small bone fragments

Minimal number of participants: 7 students. If less than 7 students will apply course will be cancelled

Deadlines: 30th April 2018 - application deadline
31st May 2018 - first payment deadline

Have you ever analysed cremated human remains?

Cremated or simply burned human remains are considered material requiring specialised attention, out of the scope of your everyday osteological practice. But have you ever wondered what it takes to look for reconstructing biological profile from this highly fragmented and distorted bone elements? Or would you like to learn how properly excavate and document cremated burial from an archaeological site? The Cremains Workshop presents the unique opportunity to learn about the process of burning and then cremating human body as well as techniques of excavation, documentation and analysis of the findings.

Costs

The fee of 1500 EUR includes:

- Laboratory costs and equipment
- Teaching material
- Administration, teaching and supervision
- Tea/coffee at break
- Certificate of Attendance

The fee does not include:

- Accommodation
- Airfares and travel in the city
- Personal insurance (health, travel and accidents - REQUIRED)



Course topics

The Cremains workshop is design to provide students and professionals alike with introduction to exploration, description and analysis of human cremated remains. The experience gained during the course can be applied in Forensic Anthropology, Forensic Archaeology and Bioarchaeology. The workshop is supervised by skilled researcher (over 13 years of experience in analysing cremated remains). The course provides practical workshops as well as theoretical basis presented in form of lectures (35 hours lecture + 35 hours of laboratory in 2 weeks).

1. Introduction to cremation
2. Cremains in archeology and forensic sciences
3. Exploration and documentation of cremated burials
4. Transportation and storage of cremains
5. Osteological analysis of cremains:
 - fragmentation of cremains
 - identification of non-human/non-bone elements
 - establishing MNI
 - describing biological profile
6. Process of cremation
7. Advanced analysis of cremains



✉ fieldschool.ia@uw.edu.pl

organiser: Institute of Archaeology, University of Warsaw, Poland,
Warsaw/Warszawa, ul. Krakowskie Przedmieście 26/28

U P C O M I N G C A P A M E E T I N G : L O N D O N

Dear CAPA-ACAP Members,

CAPA is returning to London, ON! It has been a while since we hosted our annual event (2004), so we look forward to welcoming everyone to SW Ontario. Our organizing committee consists of Andrew Nelson (general direction), Ian Colquhoun (business meeting), Jay Stock (call for symposia and call for papers) and Andrea Waters (academic program). The meeting will be held at the same venue used in 1997 and 2004, the Delta Hotel London Armories in the heart of downtown London. The opening reception will take place on Halloween, Wednesday October 31st and sessions will run November 1st, 2nd and 3rd. The Thursday evening pub night will be held at the Bull and Barrel urban saloon. We will add information to the web site as it becomes available.

London, also known as “The Forest City”, is strategically located within 2.5 hours or less from Buffalo, Windsor and Toronto. London is accessible by air, rail, bus and the 401 highway. So there are lots of physical anthropologists and students just a short hop away, so we look forward to a well attended and vibrant event!

The Organizing Committee is now accepting proposals for symposia. To submit a proposal, please complete the form found on the CAPA-ACAP website (<http://www.capa-acap.net/content/capa-2018-call-symposia>) and return by email to Dr. Jay Stock (jstock7@uwo.ca) by **Friday, June 29, 2018**.

All symposia proposals will be evaluated by the Organizing Committee. Given the limited time slots available, it may not be possible to accept all proposals. Symposia will be judged on merits, including their potential to bring together participants from multiple institutions and/or research groups, the scholarly interest of the theme tying the presentations together, and how interesting and useful they are likely to be to the attending CAPA/ACAP membership at large.

See you all in October,

Andrew, Ian, Jay & Andrea



CAPA 2017 BUSINESS MEETING MINUTES

CAPA-ACAP 45th Annual Meeting -- Edmonton Business Meeting Agenda (Friday, October 27th, 2017 – 5:00 PM, Prism Room)

Ian Colquhoun, CAPA-ACAP President, calls Business Meeting to order.

1. Approval of the Agenda

Motion P. Sicotte Second: R. Lazenby Approved unanimously.

2. Approval of the 2016 Minutes

Motion: T. Prowse Second: S. Abonyi Approved unanimously.

3. Business Arising from the Minutes.

No business.

4. President's Report –

a) Remarks on 2017

Thank you to Tina Moffat, in her role as Past-President, for her support during the year while I was on medical leave, to step in and help with the functioning of the Association Executive and the position of President. There was a thunderous round of applause in response!

b) CAPA-ACAP Presidential election 2018.

2018 will represent the third year of my term as President. So, we will need to strike a committee to nominate at least two candidates for an election by Members of a new President to serve a 3-year term (2019-2021). According to the Association's Constitution, the Presidential Nomination Committee includes two Full members and a Student member. We will send an email to get something in place.

c) Creating a "List of Experts" for the CAPA-ACAP website to facilitate media contact.

There have been recent cases of outreach from media outlets looking for comment/input about current news events. The media has been tracking down the President through our website. We could raise the Association's profile by instituting a dedicated "Ask a Physical Anthropologist" function on the CAPA-ACAP website. Ian is willing to take the lead on this and work with our website designer/consultant Cheryl Takahashi to have a list on our website and reach out to people to be on that list. All agreed.

5. Secretary-Treasurer's Report (see attached) – Genevieve Maltais-Lapointe

Congratulation to Lesley and Sandra from their well-planned budget; preliminary results indicate that the conference registration is able to cover all the expenses. This does not include grants and sponsorship they were able to get.

Motion to increase student travel to \$100. (T. Moffat) Second by: R. Lazenby. All favour. The \$100 is applicable to this conference!

6. Website Editor's Report – Asta Rand

See report sent by Email.

7. Newsletter Editor's Report – Surprise announcement!

Jen Sharman's role is up and we reached out to members for someone to take up the role of Newsletter Editor. Welcome to our new Newsletter Editor, Madeleine Mant!

8. Student Representative Report – Sarah Duignan

Idea that is in the works right now is to create a broader sense of communication for students beyond the Annual Meeting. A closed Facebook group would be one way to have an added benefit to their membership and be able to discuss research opportunities or other inquiries. So far there is positive responses to the idea when it was pitched at the student luncheon.

9. Other Business –

- a) Report from the CAPA-ACAP Subcommittee on Special Member Representation & Mentorship – Jackie Prime. Tabled to be followed on following distribution of report and submission.
- b) Report from the CAPA-ACAP Subcommittee on Ethics and Diversity – Tracey Galloway Emily Holland to be added to the committee. Included in the committee is Kayla parker, Sarah Duignan, and Tracy Galloway.
- c) Pablo Nepomnaschy asked that the Association (again) consider, "...writing a letter to the Directors at the Tri-council to address the issue of funding for those of us who do bioanthro work related to health." This could be a letter from the Executive, but concerned members could add their names also.

Contact Pablo if interested. Anthropologists do a lot of health related research that is very important and it is difficult to get grant and money to do the work. Since talking about health in SSHRC or NSERC the application is not successful.

d) Future Annual Meetings:

- i) 2018 – No venue yet: any interested parties?? Contact me!
- ii) 2019 – Banff (U. of Calgary)
- iii) 2020 -- ??

Thank-you to Sandra Garvie-Lok, Lesley Harrington, their Local Arrangements team, and to the University of Alberta for hosting our 45th Annual Meeting and having us back to Edmonton!

Motion by John Albanese to create a subcommittee to explore starting a CAPA journal. To be part of the committee Amy Scott, Hugo Cardoso.

10. Move to Adjourn

Motion: A. Nelson, Second: T. Moffat All approved.

Report from the Website Editor

I would like to begin by apologizing for my absence from this year's meeting, especially as this is the last year of my tenure as the CAPA-ACAP Website Editor. I hope everyone is enjoying Edmonton and I very much hope to visit sometime in the future.

This past year saw a continuation of CAPA-ACAP's online progress begun in 2015. Like last year, the website, and especially the Facebook page, were very successful at reaching out to members and those interested in CAPA-ACAP.

I have continued my efforts to update an accurate history of our association on the website. Specifically, this has involved scanning and uploading programmes from past meetings so that they are easily accessible to interested viewers. There have, however, been several setbacks. For example, the webpage for the 38th annual meeting in Saskatoon in 2010 is no longer accessible. However, the publication of information related to the annual meetings directly on the CAPA-ACAP website in recent years means we no longer must rely on the websites of each host institution to maintain meeting webpages so that the information remains accessible. Furthermore, access to editing the annual meeting webpage on the CAPA-ACAP website was provided to meeting organizers this year. While it is part of my duties to update content on the website, it allowed the meeting organizers to include content they felt relevant while "cutting out the middle person" so to speak.

A second setback has been access to copies of programmes from previous years. While I am continuing to digitize copies of past meeting programmes graciously provided by Dr. Susan Pfeiffer, 17 are missing from our combined collection. While the abstracts are available on the website within various newsletters, I think it would be useful to have digitized copies of the complete programmes easily available on the website. Therefore, I am asking anyone who may have copies of the missing programmes (see attached table) to please contact me.

As in previous years, I have tried to make the website more user-friendly, while providing information of interest to members. This year, I tried to reorganize the tabs so they are more intuitive. I have also added some resources relevant to students, namely a series of manuscripts providing tips on writing papers, conference posters and so forth.

Beginning last year, I also linked the website with the Facebook page, and vice versa. For example, there is now a link to the Facebook page on the website. Importantly, however, the action button "sign up" on the Facebook page redirects those who click on it to our membership sign up on the page. Since last year, at least 30 people clicked the action button that took them to the website to sign up and although not all of them may have, I feel it is an excellent way to promote the website. This is especially relevant that given in 2015 the CAPA-ACAP page had 200 followers and now it has 592. One reason for this success is likely opening the administration of the page to the other CAPA-ACAP executive members. This allows multiple people to post relevant items on the Facebook page, allowing for a broader perspective of interests to be addressed.

In terms of the future, the current meeting organizers began a Twitter account that was very successful at promoting the annual meeting. Perhaps reaching out through other social media avenues could be beneficial in the future. As always, I am continually looking for quality photos for both the website and FB pages, as well as relevant stories, associations, interesting articles, field school and job opportunities etc. This will not only increase the involvement of the membership, but will increase circulation of knowledge and promote Canadian research to a broader, online community. Anyone with appropriate material is encouraged to contact me.

Finally, as this is my final year as the CAPA-ACAP Website Editor we must announce a call for candidates and an upcoming election for the position. I am very thankful for this experience, and owe many people a great deal, including Cerhyl Takahashi who not only designed the website, but has been instrumental in keeping it accessible and running smoothly. I would also like to thank my fellow officers and the users of the website, who have made several suggestions on how it may be improved.

To conclude, I would like to thank everyone who has helped make the website and Facebook page a success over the past year. I'd also like to thank everyone for the opportunity to be more involved with CAPA-ACAP as the Website Editor, and I am looking forward to passing on my experience to the next Website Editor.

Sincerely,
Asta Rand
CAPA-ACAP Website Editor

Table 1: List of Programmes currently missing from the CAPA-ACAP Website

Meeting	Year	Location	Host Institution
40	2012	Victoria, B.C.	Universities of Victoria & Northern British Columbia
38	2010	Saskatoon, SK	University of Saskatchewan
35	2007	Banff, AB	University of Calgary
33	2005	Winnipeg, MB	University of Manitoba
31	2003	Edmonton, AB	University of Alberta
27	1999	Fredericton, NB	University of New Brunswick
26	1998	Calgary, AB	University of Calgary
25	1997	London, ON	University of Western Ontario
24	1996	Kingston, ON	Queen's University
23	1995	Las Vegas, NV	University of Nevada
21	1993	St. John's, NL	Memorial University of Newfoundland
20	1992	Edmonton, AB	University of Alberta
19	1991	Hamilton, ON	McMaster University
18	1990	Banff, AB	University of Calgary
17	1989	Vancouver, BC	Simon Fraser University
16	1988	Peterborough, ON	Trent University
11	1983	Montréal, QC	Université de Montréal

Secretary-Treasurer's Financial Report -- 2017:

1 – Statement of Income and Expenses for 2017 –
(for the period Jan 1st/'1 to Dec 31st/'17)

CAPA-ACAP Community Account Opening Balance

PayPal Account	\$ 29,386.38
Bank of Montreal Account	\$ 21,297.11
Total Opening Balance	\$ 50,683.49

Income:

Membership dues (Cheque)	\$ 250.00
Memberships dues (Paypal)	\$ 7,750.00
Conference Registration (Cheque)	\$ 1,145.00
Conference Registration (Paypal)	\$ 23,870.00
Fee refund (PayPal)	\$ 4.94
Currency Exchange	\$ 6.29
	\$ 33,026.23

Expenses:

Website maintenance (Takashi Design)	(\$2,779.58)
Paypal Fees	(\$1,047.94)
Membership Reimbursement (Unwanted recurring payment)	(\$107.55)
Student Travel Reimbursement (2016)	(\$50.00)
Shelley Saunders Awards (2016 and 2017)	(\$4,023.50)
Conference Award (2016)	(\$1,000.00)
Conference Refund (2017)	(\$170.00)
Conference Payment (2017)	(\$24,936.88)
Sub-total Expenses for 2017	(\$34,115.45)

Community Account Balance as of Oct 19th/'17: \$ 49,594.27

2 - Current Assets (as of December 31st, 2017):

Bank of Montreal Community Account Funds: **\$20,261.52**
Amount in CAPA-ACAP PayPal account: **\$29,332.75**

Total Assets: **\$49,594.27**

3 - Comparative figures for revenue from membership (2002-2017):

2017:	\$8,000.00	2009:	\$4,002.97
2016:	\$5,565.00	2008:	\$5,755.76
2015:	\$6,150.00	2007:	\$6,162.78
2014:	\$5,513.85	2006:	\$5,619.97
2013:	\$4,295.78	2005:	\$4,838.26
2012:	\$5,224.96	2004:	\$5,115.01
2011:	\$6,458.87	2003:	\$3,629.72
2010:	\$2,439.20	2002:	\$2,243.73

4 - Membership Breakdown 2017:

2017	New	Renewal	Total
Student member	38	43	81
Full member	9	59	68
Total	47	102	149

Plus, 19 Life Members (S. Abonyi, L. Chan, I. Colquhoun, R. Hoppa, M. Liston, C. Meiklejohn, J. Parish, D. Sellen, E. Szathmary, A. Zeller, G. Hayes, J. Cybulski, T. Galloway, V. Gibbon, M. Tocheri, H. Helmuth, S. Cote*, D. Samson*, G. Cumming*)

= 168 Members in CAPA-ACAP for 2016.

2016	New	Renewal	Total
Student member	26	56	82
Full member	3	68	71
Total	29	124	153

Plus, 16 Life Members (S. Abonyi, L. Chan, I. Colquhoun, R. Hoppa, M. Liston, C. Meiklejohn, J. Parish, D. Sellen, E. Szathmary, A. Zeller, G. Hayes, J. Cybulski, Tracey Galloway, V. Gibbon, M. Tocheri, H. Helmuth)

= 169 Members in CAPA-ACAP for 2016.

Comparative Membership totals, 1996-2017: (* = historic high in CAPA-ACAP membership)

Total membership **2017** (Edmonton): **168**

Total membership 2016 (Peterborough): 169
 Total membership 2015 (Winnipeg): 182
 Total membership 2014 (Fredericton): 126
 Total membership 2013 (Toronto): 139
 Total membership 2012 (Victoria): 161
 Total membership 2011 (Montreal): **216***
 Total membership 2010 (Saskatoon): 95
 Total membership 2009 (Vancouver): 132
 Total membership 2008 (Hamilton): 168
 Total membership 2007 (Banff): 155

Total membership 2005 (Winnipeg): 130
 Total membership 2004 (London): 91
 Total membership 2003 (Edmonton): 96
 Total membership 2002 (Ottawa): 110
 Total membership 2001 (Winnipeg): 149
 Total membership 2000 (Burlington): 133
 Total membership 1999 (Fredericton): 117
 Total membership 1998 (Calgary): 62
 Total membership 1997 (London): 58