46th Annual North American Meeting of Paleopathology Association
Cleveland (Ohio), 25-27 March, 2019
Scientific Program (provisional)

**MONDAY, March 25**
8:30 am-5:00 pm Pre-meeting excursion (soon available)  
Meet at Hilton Lobby
6:00 pm-9:00 pm Registration  
Hilton Lobby

**TUESDAY, March 26**
7:45 am-5:00 pm Registration  
Hilton Hope Foyer
8:30 am-5:00 pm Student Action Committee Raffle

8:30 am-11:30 am Workshop I  
Diagnosing treponemal infection in human skeletal remains  
*Cleveland Museum of Natural History*
Hosted by Brenda J BAKER, Maciej HENNEBERG, Charlotte A ROBERTS and Ann LW STODDER

8:30 am-11:30 am Workshop II  
Assessing methods of recording cranial porotic lesions  
Hilton Center Street A
Hosted by Amy ANDERSON, Dale HUTCHINSON and Marie DANFORTH

Lunch 11:30 am-1:30 pm

1:30 pm-2:15 pm Keynote lecture Chair Niels LYNNERUP  
*Hilton Hope BC*
The dead teaching the living: Contribution of the Hamann-Todd Osteological collection to paleopathology
Yohannes HAILE-SELASSIE

2:15 pm-3:30 pm Podium Presentation – Part I Chair Sharon DeWITTE  
*Hilton Hope BC*
2:15 Townscapes: Reflections on middle Bronze Age life in Sidon (Lebanon)  
Chris STANTIS, Nina MAARANEN, Arwa KHAROBI and Holger SCHUTKOWSKI ++

2:30 Skeletal evidence of violent conflict in Judea during the 2nd-1st century BCE  
Piers D MITCHELL, Jenna M DITTMAR, Yossi NAGAR, K ARVIV and Tehilah LIEBERMAN

2:45 Too Good To Be True. Transdisciplinary approach to health: The Hellenistic burial ground at the Oasis of Tayma, Saudi Arabia, a case study  
Emmanuele PETITI, Julia GRESKY and Arnulf HAUSLEITER ++

3:00 Investigating the relationship between diet, mandibular morphology, malocclusion, and dental caries through time in Britain  
Cara S HIRST ***

3:15 The antiquity of hydrocephalus: reassessment of existing knowledge and multidisciplinary analysis of the cases from the Museum of Anatomical Pathology of the University of Florence  
Francesco Maria GALASSI, Elena VAROTTO, Raffaella SANTI and Gabriella NESI

*** Entrant for the Cockburn Student Prize  ++ Entrant for the Early Career Prize
Coffee break 3:30pm-3:50pm

3:50 pm-5:30 pm  Symposium  Chairs Anne GRAUER and Anne KATZENBERG  Hilton Hope BC

Honoring Jane Buikstra, Inaugural editor of *International Journal of Paleopathology*

3:50  Jane Ellen Buikstra: Formative years
Della Collins COOK

4:00  The birth of Bioarchaeology in North America
Mary Lucas POWELL

4:10  “Out of the appendix and into the dirt”: The importance of mortuary analysis in Jane Buikstra’s *Bioarchaeology*
Megan PERRY

4:20  The “White Plague”: Jane’s contributions to understanding the origin, evolution and history of tuberculosis
Charlotte A. ROBERTS

4:30  Bone chemistry and paleopathology
M. Anne KATZENBERG

4:40  Clarity and nuance: The evolution of data collection in paleopathology
Ann L.W. STODDER

4:50  Scientific rigour in palaeopathological diagnosis and interpretation
Simon MAYS

5:00  Paleodemography and Paleopathology: Two fields with several common, yet still elusive, goals
George R MILNER

5:10  Burning, bootprints and decapitation: The contributions of Jane E. Buikstra to the maturation of the Forensic Anthropology discipline
Dawnie STEADMAN

5:20  Closing words

5:30 pm-6:45 pm  Student Action Committee Events  Hilton Hope BC

5:30 pm-6:15 pm  Student Group Discussion Panel  Chair Ashley DAFOE

Title  (Soon available)
Panelists:  (Soon available)

6:15 pm-6:45 pm  Student Group Meeting

6:45 pm-10:00 pm  Cash bar followed by *Association Business Meeting* and Dinner  Hilton Hope E

WEDNESDAY, March 27

8:00 am-12:00 pm  Registration  Hilton Hope Foyer

8:30 am- 5:00 pm  Student Action Committee Raffle

*** Entrant for the Cockburn Student Prize  ++ Entrant for the Early Career Prize
8:30 am-10:00 am  Podium Presentation – Part II  Chair Simon Mays  Hilton Hope BC

8:30  Exploring a new scoring scheme for the cribrous syndrome in relation to anaemia: A pilot study on an early Bronze Age cemetery in Northwestern China
Jennifer AUSTEN, Ruilin MAO, Hui WANG, Hui-Yuan YEH and Mary LEWIS  ***

8:45  Subadult scurvy in Peru: Potential cases in postcontact Mórrope
Mikayla K MATHEWS and Haagen KLAUS  ***

9:00  Can we identify cystic fibrosis from skeletal remains?: A proposed differential diagnosis
Melanie M BEASLEY and Clare REMY  ++

9:15  A new methodological approach to nasal trauma in Portuguese individuals from two documented osteological collections (19th-20th centuries)
Ana Luísa SANTOS, Simon MAYS and Bruno M MAGALHÃES

9:30  Ancient DNA analysis: Results of a survey of users
Charlotte A. ROBERTS and Eva FERNÁNDEZ-DOMINGUEZ

9:45  Further incorporation of evidence-based diagnostic criteria for skeletal pathologies into standardized skeletal data recording systems
Molly K ZUCKERMAN

Coffee break  10:00 am-11:00 am  Convention Center Ballroom BC

10:00 am-11:30 am  Poster Symposium  Convention Center Ballroom BC

Paleopathology and the rise of Industry
Hosted by Gillian CRANE-KRAMER and Jo BUCKBERRY

A.  The dark Satanic Mills: Evaluating patterns of health in England during the industrial revolution
Jo BUCKBERRY and Gillian CRANE-KRAMER

B.  Influences of urbanization and industrial development on human health in premodern Japan
Tomohito NAGAOKA

C.  Are the identified collections of immature skeletons dating from the Industrial Revolution good references for paleoauxological studies? The example of France
Hélène COQUEUGNIOT, Antony COLOMBO and Olivier DUTOUR

D.  Bioarcheological data and 18th to early 20th century’s medical literature: Paleoepidemiology of rickets through the French industrial revolution
Antony COLOMBO, Hélène COQUEUGNIOT and Olivier DUTOUR  ++

E.  Secular trend in skeletal growth among urban Japanese during the Edo period (1603-1867)
Nana NAKAYAMA

F.  Investigating the association between physiological stress and skeletal pathology in London: Incremental dentine analysis of 19th century dentine collagen
Ruth O’DONOGHUE and Julia BEAUMONT  ***
G. The intersections of industrialization: Variation in physiological stress indicators by age, sex, and socioeconomic status  
Samantha YAUSSY

H. The Proud Tower in the town: Cholera and tuberculosis among the working poor in early twentieth century Milwaukee  
Norman SULLIVAN, Sydney RESLER, Noel HINCHA, Sean DOUGHERTY and Colleen MILLIGAN

I. Did the rise of industry was also those of tuberculosis? Epidemiological evolution of TB in France (18th-20th cent.) inferred from osteoarchaeological and historical archives  
Olivier DUTOUR, Antony COLOMBO and Hélène COQUEUGNIOT

J. The impact of Industrialisation on neoplastic disease in Britain: A study of medieval and late post-medieval samples  
Sabrina SORIA and Jo BUCKBERRY

K. Industrialization and the prevalence of osteoarthritis in the United States  
Ian WALLACE, Robert D JURMAIN and Daniel E LIEBERMAN

L. The cooper, the sailor, and the shoemaker's wife: Occupational hygiene amongst London's eighteenth-century working poor  
Madeleine MANT

M. Dietary patterns and migration in pre-industrial Copenhagen  
Marie Louise S JØRKOV, Janet MONTGOMERY and Darren R GRÖCKE

N. Life and Death in 19th-Century Illinois: Issues of Immigration and Industrialization  
Kelsy DORN, Edith PEREZ, Anne PLUCHAR and Anne GRAUER

10:00 am-11:30 am  Poster Session I  Convention Center Ballroom BC  
Posters in place all day. Authors of ODD numbered posters will be present during this break. Poster titles and authors listed, alphabetically, at the end of the program.

11:30 am-1:30 pm  Let’s Do Lunch (optional)

1:30 pm-2:45 pm  Podium Presentation – Part III  Chair Sandra Garvie-Lok  Hilton Hope BC

1:30  Prehistoric shark attack victim from Tsukumo, Okayama Prefecture, Japan: Skeletal mapping and patterning in 3D GIS  
J Alyssa WHITE, John POUNCETT, Rick SCHULTING, George BURGESS, Masato NAKATSUKASA, Soichiro KUSAKA, Yasuhiro YAMADA and Minoru YONEDA

1:45  Sutural anomalies as a possible indicator of complex syndromes at Koster Mounds (Greene County, Illinois)  
Lita SACKS

2:00  Reconstructing physical impairment in Medieval Cambridge society: A biomechanical approach  
Jenna M DITTMAR, Bram MULDER, Piers D MITCHELL, Sarah INSKIP, Benjamin NEIL, Craig CESSFORD, Jay STOCK and John ROBB

*** Entrant for the Cockburn Student Prize   ++ Entrant for the Early Career Prize
2:15 The impacts of migration on skeletal pathology in nineteenth and twentieth century St. Louis, Missouri
Kristina M ZARENKO

2:30 Hard beginnings in Colonial Otago, New Zealand: Deciduous dental defects associated with in-utero vitamin D deficiency?
Anne Marie E SNOODY, Hallie R BUCKLEY, Peter PETCHEY, Siân E HALCROW, Charlotte L KING, Rebecca L KINASTON and Lisa MATISOO-SMITH

2:45 pm-4:00 pm Poster Session II
Convention Center Ballroom BC
Posters in place all day. Authors of EVEN numbered posters will be present during this break. Poster titles and authors listed, alphabetically, at the end of the program.

3:00 pm Coffee break
Convention Center Ballroom BC

4:00 pm-5:45 pm Podium Presentation – Part IV
Chair Dong Hoon Shin
Hilton Hope BC
4:00 Craniofacial dysplastic bone lesions and their differential diagnoses in three individuals of a Bronze Age cemetery in Tajikistan
Julia GRESKY
4:15 Paleopathology of two Neolithic mass burials from Jagodnjak, Croatia
Mario NOVAK, Dinko TRESIĆ PAVIČIĆ and Ivor JANKOVIĆ
4:30 The effects of selective breeding on incidence of bone disease in domesticated dogs (*Canis familiaris*)
Elizabeth W UHL
4:45 Recent updates in phylogenetic analysis of ancient trematodes using the feces of Korean mummies of Joseon Dynasty
Jong Ha HONG, Chang Seok OH, Min SEO and Dong Hoon SHIN

5:00 Tycho Brahe, Danish Renaissance man: A rich table but short life
Niels LYNNERUP, Sacha KACKI, Petr VELEMINSKÝ, Sylva KAUVOVÁ, Alizé L JEANSON, Ctibor POVYSIL, Martin HORÁK, Jan KUCERA, Kaare LUND RASMUSSEN, Jaroslav PODLISKA, Zdenek DRAGOUN, Jiri SMOLIK, Jens VELLEV and Jaroslav BRUZEK

5:15 On fevers and other foes of humankind: An inventory of diseases that raged the city of Almada (Portugal) during the late 18th century
Francisco CURATE and Telmo ANTÓNIO

5:30 Postcranial and cranial trauma comparative analysis of the Mississippi State Asylum skeletal assemblage (AD 1855-1935)
M Cate McALPINE, Andrea M LOPEZ and Petra BANKS

5:45 pm Closing Remarks and Announcements, Award of Cockburn Student Prize and Early Career Prize, Announcements of Student Group Raffle and Silent Auction
Chair Niels LYNNERUP
FRIDAY, March 29  AAPA - PPA joint session (abstracts are in AAPA Meeting Program Abstracts)

The evolution of syphilis: A new approach  
Invited Podium Symposium  
Chair Brenda BAKER  

2:30  Treponemal infections: One disease or many?  
SA LUKEHART and DC MABEY

2:45  Disease ecology and the relationship of human- and nonhuman primate infecting Treponema pallidum  
S KNAUF and C ROOS

3:00  Phylogenetic investigations of Treponema pallidum and related spirochetes  
S WININGEAR and AC STONE

3:15  Historic Treponema pallidum genomes: Towards a reconstruction of the evolution of treponemal diseases using ancient DNA  
VJ SCHUENEMANN

3:30  Radiocarbon evidence pertaining to the origin and spread of treponemal disease  
M DEE

3:45  A biogeochemical assessment of treponemal disease: Diagnosis, host mobility, & mercury treatment  
LA GREGORICKA

4:00  A critical review of diagnostic criteria used to identify treponemal infection in human skeletal remains  
B.J. BAKER

4:15  Treponemal disease in Europe: A critical review of the skeletal evidence  
CA ROBERTS

4:30  Silent evidence of Pre-Columbian treponemal infection in the Western half of the Old World  
M HENNEBERG and RJ HENNEBERG

4:45  Evaluating the evidence of treponemal disease from India  
V MUSHRIFTRIPATHY

5:00  The antiquity of Treponemal disease in the Asia-Pacific regions: Implications for settlement history  
HR BUCKLEY, M VLOK, K DOMETT, H HOANG TRINH and M OXENHAM

5:15  Sociopolitical patterns in treponemal disease prevalence in the pre-Columbian eastern United States  
MO SMITH and TK BETSINGER

5:30  Discussion: Moderated by Brenda BAKER

*** Entrant for the Cockburn Student Prize  ++ Entrant for the Early Career Prize