

**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 [Cleveland Museum of Natural History](#)
Diagnosing treponemal infection in human skeletal remains
Hosted by Brenda J BAKER, Maciej HENNEBERG, Charlotte A ROBERTS and Ann LW STODDER

8:30 am-11:30 am Workshop II *Hilton Center Street A*
Assessing methods of recording cranial porotic lesions
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 KHARABI 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

Coffee break **3:30pm-3:50pm**

Hilton Hope Foyer

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 H el ene 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 J ORROV, Janet MONTGOMERY and Darren R GR OCKE
- 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 ++

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 SNODDY, Hallie R BUCKLEY, Peter PETCHEY, Siân E HALCROW, Charlotte L KING, Rebecca L KINASTON and Lisa MATISOO-SMITH

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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.

Coffee break **3:00 pm-4:00 pm**

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 KAUPOVÀ, Alizé L JEANSON, Ctibor POVYSIL, Martin HORÀK, Jan KUCERA, Kaare LUND RASMUSSEN, Jaroslav PODLIŠKA, 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

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

FRIDAY, March 29

AAPA - PPA joint session (abstracts are in AAPA Meeting Program Abstracts)

The evolution of syphilis: A new approach

CC Ballroom A

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