

**20<sup>th</sup> Annual Conference of the British Association of Biological Anthropology  
and Osteoarchaeology.**

14-16 September 2018, Cranfield University.

Friday 14 September 2018

**12:00 – 13:00 Registration and welcome refreshments**

**13:00 – 13:15 Welcome to Cranfield.**

**13:15 – 13:45 Prof Charlotte Roberts. History of BBAO**

**13:45 – 15:00 Podium presentations: Session 1 - Open Session**

13:45 Michael Rivera, Diversity and representation in British Archaeology and Biological Anthropology

14:00 Kirsty Squires, David Errickson and Nicholas Márquez-Grant, Ethically speaking about Ethics.

14:15 Jaime Swift and Rick Schulting, Foraging to Farming: Diet and Health on the Frontier of Maize Agriculture in Pre-Columbian central Chile.

14:30 Arwa Kharobi, Giorgio Buccellati, Martine Vercauteren and Caroline Polet, Show me your teeth: dietary habits during the Bronze Age in northern Syria through dental wear.

14:45 Kirsten Egging Dinwiddy, A glimpse of a ganger, a goose and some gardeners?

**15:00 – 15:45 Poster Session 1: Open Session**

1. Christopher Aris, Patrick Mahoney and Chris Deter, Temporal redistribution of molar enamel volume: a preliminary study of two British populations.

2. Emma Saunders, Nicholas Márquez-Grant and Peter Zioupos, Exploring the association between Cam morphology, occupational activity and non-metric traits of the femur.

3. Ross Kendall and Ellen Kendall, Mortality and familial structure in the English Fens before and after drainage.

4. Lauren Walther, Rebecca Gowland, Sarah Semple, Janet Montgomery, Andrew Millard, Sue Harrington and Stuart Brookes, The People of the North: bioarchaeological investigations of Northumbria cemeteries AD 300-800.

5. Michelle Williams-Ward, James Neill, Vanessa Santos-Torres, Alison Cullingford, Jo Buckberry and Sarah George, The legacy of Dr Calvin Wells: a new resource for researchers.

6. Lauren McIntyre, Mandy Jay, Janet Montgomery, Geoff Nowell, Darren Grocke, Fraser Brown and Helen Evans, Breast versus stress: incremental dentine isotope data from a rare late Bronze Age child.

7. Linzi Harvey, Them digital bones: osteological analysis in Synthetic Worlds.
9. Mallory Anttil, Joel Irish and Isabelle De Groote, A dental assessment of biological affinity among North and South Piceni and their interactions with neighbouring Etruscan and Latini populations.
10. Rosie Pitfield, Chris Deter and Patrick Mahoney, Inferring regional differences in the lives of Medieval juveniles using histomorphometry.
11. Alessandra Varalli, Jocelyne Desideri, Gwenaëlle Goude, Mireille David-Elbiali, Matthieu Honegger and Marie Besse, Changing times, changing diet? Isotopic investigation of adult and childhood feeding practices in Switzerland in Late Prehistory.
12. Niina Korpinen, Markku Niskanen, Juho-Antti Junno and Tiina Väre, Dimensional differences in lumbar vertebra between African apes and humans.
13. Gwenaëlle Goude, Alessandra Varalli, Irene Dori, Sara Bernardini, Elisabetta Starnini, Paolo Biagi, Chiara Panelli, Stefano Rossi, Roberto Maggi, Jacopo Moggi-Cecchi and Vitale Sparacello, First agropastoralist communities in Liguria: new stable isotope data and palaeodietary perspectives.
14. Ricardo Ortega Ruiz, Júlia Olivé Busom and Lorena Millet Jiménez, The possible origin of the alleged immigrants of Cortijo Coracho, Lucena, Córdoba (Spain).
16. Maria Leroi, Jennifer Sizemore, Magdalena Auron, Winsome Lee and Xenia-Paula Kyriakou, Seizing up- progression markers of ankylosing spondylitis (AS) on dry bone and radiographs.
17. Mária Krošláková, Atypical dento-alveolar lesions indicating using teeth as a “third hand” in a possible craftsmen community from Tesárske Mlyňany-Pláň, Slovakia.

**15:45 – 16:30 Keynote Speaker: Dr Julie Roberts: The role of the forensic anthropologist in the 21st century.**

**16:30 – 18:00 Podium presentations: Session 2 - Forensic Anthropology**

16:30 Ryan Austin, Identifying the Missing: utilising strontium isotopes for geolocation; finding the Voice for Guatemala's forgotten.

16:45 Nicole Lambacher, Lourdes Herrasti and Francisco Etxeberria, The Great Spanish Escape of Ezkaba: methodology of investigation and attempted identification of victims of the Prison Break from San Cristóbal.

17:00 Keith Silika and Kirsty Squires, Ethics and human remains in Zimbabwe.

17:15 Benedetta Mammi, Claudine Abegg, Nicholas Márquez-Grant, Ignasi Galtés and Simon Verdegem, Trauma observed on World War One soldiers in Wijtschate, Belgium.

**17:45-19:30 Drinks reception – CMDC Atrium**

Saturday 15 September 2018

**08:30 – 08:45 Morning Tea and coffee**

**08:45 – 09:30 Keynote Speaker: Dr Eline Schotsmans: Taphonomy of Human Remains: Analysis of the Dead and the Depositional Environment in Archaeo-Anthropology and Forensics.**

**09:30 – 11:00 Podium presentations: Session 3 - Funerary Archaeology**

09:30 Anna Bloxam, Diversity and dis/continuities: investigating burial practices across the British Beaker period.

09:45 Frankie Wildmun and Tina Jakob, Burnt pig heads and cramp: recreating Orcadian Bronze Age funerary pyres.

10:00 Sharon Clough, An Anglo-Norman execution cemetery – the osteological evidence.

10:15 Marc Oxenham, Hirofumi Matsumura and Damien Huffer, The bioarchaeology of kinship, group membership and identity in Neolithic Vietnam.

10:30 Pedro Andrade, Joaquín Dalenz, Alexia Lopez, Katherine Fonseca, Alexandra Pachecho, Sebastián Santana, Marlene Martínez, Lía Leyton and Valentina Hunter, Rebuilding a banishment from the bones: the case of the historical cemetery of the San José de la Mocha Mission, Chile (17th-19th centuries).

10:45 Catherine Jones, Investigating warrior culture in Iron Age burials from Garton Station and Kirkburn, East Yorkshire: an osteological approach.

**11:00 – 11:30 Poster Sessions 2 & 3**

**Poster Session 2: Forensic Anthropology**

19. Michael Offley and Jo Buckberry, Are epiphyseal lines only seen in young adults?

20. Emese Vegh, Nicholas Márquez-Grant and Rick Schulting, Changes to cut-marks on differentially decomposed and processed bones after heat damage – an experimental approach.

21. Louise Loe, Helen Webb, Mark Gibson and Stephen Rowland, Skeletal trauma sustained in a firedamp explosion: a first for anthropology.

22. Charlotte Primeau and Menno Hoogland, Age estimation of the pars basilaris using two methods on a sample of known age.

23. Vijarn Vachirawongsakorn, Nicholas Márquez-Grant and Jonathan Painter, Interpreting the effects of heat and weather conditions on cut mark analysis.

24. Avinash Gupta, Birgit Großkopf and Susanne Hummel, Evaluating morphological and metrical methods for sex determination on human skeletal materials by molecular testing.

26. Angelina Longo and Jo Buckberry, A comparative analysis of two sex assessment methods for the pubic bone: the impact of different stages of bone fragmentation and user experience.

27. Hannah McGivern, Charlene Greenwood, Elena Kranioti, Nicholas Márquez-Grant and Peter Zioupos, The application of micro-computer tomography and nanoindentation to quantify the micro-architectural and mechanical changes to the clavicle with age.

### **Poster Session 3: Funerary Archaeology**

29. Ivor Janković, Mario Novak, James Ahern, Jacqueline Balen and Hrvoje Potrebica, The Potočani Massacre: interdisciplinary approach to death in prehistory.

30. Monika Dzierlinska, The analysis of thermal fractures of cremated human remains from Brudnice site 5, Poland.

31. Rebecca Seed, Jo Buckberry, Sarah Taylor and Glenn Foard, Investigating the burial of battlefield dead in medieval English churchyards.

32. Christian Meyer and Bruno Chaume, An Iron Age skeleton without hands and feet: Burial ST25 from Vix, France.

33. Laura Anne Krupke and Jo Buckberry, A rite of passage in Early Anglo-Saxon England: an investigation of puberty and social identity.

34. Elizabeth Popescu and Louise Loe, New light on life and death in southern Gipeswic and medieval Ipswich.

35. Rebecca Venn and Charlotte Roberts, Using grave goods and pathological markers of social age to understand Anglo-Saxon identity in later life.

36. Natasha Powers, Revealing Roman Lincoln: a reassessment of the funerary archaeology of Lindum Colonia.

### **11:30 – 13:00 Podium presentations: Session 4 - Palaeopathology I**

11:30 Charlotte Roberts, Richard Steckel, Clark Larsen and Joerg Baten, The Global History of Health Project – The Backbone of Europe.

11:45 Alexandra Johnson, Diet and health in a time of transition: Pictish and Viking Age Orkney

12:00 Gwyn Madden and Rose Drew, The 4000 series from Tukthuset (c1741-1938), Oslo's Workhouse: hardened criminals or walking wounded?

12:15 Jenna Dittmar, Elizabeth Berger, Xiaoya Zhan, Ruilin Mao, Hui Wang, Hui-Yuan Yeh, Skeletal evidence of violent trauma and intergroup conflict in Bronze Age northwest China

12:30 Zuzana Hukelova, Nitra – Selenec II (Slovakia): an 11th century cemetery for the sick and dying?

12:45 Hiroko Hashimoto, A new infectious disease transmitted to islands with cultural change: a Japanese case study.

**13:00 - 14:00 Lunch**

**14:00 - 14:45 Keynote Speaker: Dr Simon Underdown. Exploring Human-Disease Co-Evolutionary Relationships in Deep Time.**

**14:45 – 16:00 Podium presentations: Session 5 - General Biological Anthropology (Open Session II)**

14:45 Antony Colombo, Zewdi Tsegai, Nicholas Stephens, Matteo Bettuzzi, Maria Pia Morigi, Maria Giovanna Belcastro and Jean-Jacques Hublin, Autonomous bipedal walking acquisition in children: comparison of trabecular bone microarchitecture in the radial and femoral distal metaphyses.

15:00 Eóin Parkinson, Jay Stock, Damiano Marchi, Brigitte Holt, Alessandra Varalli and Vitale Sparacello, Long bone cross-sectional geometry and sexual division of labour: a bioarchaeological approach to gender in Copper Age Italy.

15:15 Sophie Newman, Katie Keefe, Malin Holst, Anwen Caffell and Rebcca Gowland, Growing old in the Industrial Age: ageing, health, and social identity in elderly females (18th-19th C).

15:30 Julie Debard, Jocelyne Desideri, Olivier Dutour and Marie Besse, Stress markers prevalence on female individuals from Iron Age populations in Western Switzerland.

15:45 Ariana Gugora, Tosha Dupras and Erzsébet Fóthi, Childhood and adult mobility in 13th Century AD Solt-Tételhegy, Hungary from stable oxygen isotope analysis.

**16:00 – 16:45 Poster Session 4: Palaeopathology**

37. Chris Chinnock, Use of the teeth as a third hand: abnormal dental wear patterns in an elderly Anglo-Saxon female from Warwickshire.

38. Charlotte Loy and Martin Smith, Using the Demographic Profile of an 1832 Cholera Mass Grave to infer Disease Mass Grave Relationships and Population Information.

39. Jennifer Austen, Angela Dautartas, Xiaoya Zhan, Jenna Dittmar, Ruilin Mao, Wang Hui, Hui-Yuan Yeh and Mary Lewis, The relationship between cranial and postcranial cribrous lesions: a preliminary test on an early Bronze Age site in Gansu Province, China.

40. Francisca Alves-Cardoso and Nathalie Antunes-Ferreira, The contribution of microscopy and radiology for the differential diagnosis of skeletal lesions: the case of a metastatic carcinoma.

41. Julia Olivé Busom, Nicholas Márquez-Grant and Gonzalo Castro Moreno, Pathological conditions in the lower limbs of a religious community in southern Spain.

42. Nichola Arthur, Heather Bonney and Rebecca Redfern, Prehistoric trepanation on the Thames: a bioarchaeological analysis of two trepanned individuals recovered from the River Thames.

43. Sophie Beckett, Katie Mckinnon, Martin Hatton and Ray Baldry, Discovery of multiple subacute osteomyelitis lesions in a sub-adult from the Middle Anglo-Saxon period: use of computed tomography.

44. Norman Sullivan, Sydney Resler, Noel Hinch and Sean Dougherty, To leave a memory like a breath: life and death of non-adults in the Milwaukee County Children's Home at the beginning of the twentieth century.

45. Swantje Krause and Uta Halle, Suspicious skull bones – Paleopathological observations of the endocranium.

46. Katie Tucker and Claudia Melisch, Auf der Suche Schönen Zähnen: evidence for dental prostheses from 16th-17th century Berlin.

47. Jessica Waters and Tina Jakob, Misdiagnosing trauma: making a case for congenital absence of bone.

48. Erin Thompson, Tina Jakob, Claire Hodson, Subperiosteal new bone formation on perinates and infants' a normal growth response or a pathological condition?

49. Mario Novak, Ivor Janković and Dženi Los, Life and death during the Neolithic at the edge of the Pannonian Plain: Bioarchaeology of human remains from Beli Manastir-Popova zemlja, Croatia.

50. Stephany van der Walt, Coen Nienaber, Anja Meyer and Maryna Steyn, Markers of disease in juvenile remains from a Second Anglo Boer War concentration camp cemetery, South Africa.

51. Gina McFarlane, The rich, the poor, and the Industrial Revolution: tracking social disparities in health risks across the life course.

52. Ian McAfee, Joint disease in post-Medieval England: comparative analysis of modern risk factors and historic lifestyles.

### **16:45 – 17:45 Podium presentations: Session 6 - Palaeopathology II**

16:45 Samantha Tipper, Penelope Wilson and Charlotte Roberts, A comparative study of spinal pathology across Ancient Nubia.

17:00 Francesca Mengozzi, Pedro Andrade, Lia Leyton, Marlene Martinez, Sebastián Santana, Alexandra Pachecho, Katherine Fonseca, Alexia López, Joaquín Dalenz, Earliest evidence of treponemal disease in central Chile: a case study from the El Corte site (200 AD).

17:15 Jennifer Mack, Tomfoolery and tuberculosis: an examination of adolescent health and mortality at Dubuque Third Street Cemetery.

17:30 Carla Burrell, Silvia González, Robert Layfield, Lynn Smith and Joel Irish, Paget's Disease or a Paget's-like disorder? New analyses from the Norton Priory Collection, UK.

**17:45 – 18:45 BABA0 AGM for members**

**19:30 – 00:00 Conference dinner and entertainment – CMDC Restaurant**

Sunday 16 September 2018

**08:30 – 08:45 Morning Tea and coffee**

**08:45 – 09:30 Keynote speaker: Dr Dario Piombino-Mascali. Mummies as a bioarchaeological resource.**

**09:30 – 11:00 Podium presentations: Session 7 - Advances in Biological Anthropology and Osteoarchaeology.**

09:30 Tom Booth and Jo Bruck, Just remember that death is not the end: curation and excarnation of human remains in Bronze Age Britain.

09:45 Katie Faillace and Jonathan Bethard, The applicability of dental wear in age estimation for a Modern American population.

10:00 Claudine Abegg, Jocelyne Desideri, Olivier Dutour, Marie Besse, Integrative methodology in paleoepidemiology: an example using Neolithic populations in Western Switzerland.

10:15 Marianna Koukli, Frank Siegmund and Christina Papageorgopoulou, Stature estimation in archaeological skeletal remains from northern Greece.

10:30 Alyssa White, John Pouncett and Rick Shulting, Mapping skeletal trauma: a tour of violence in 3D GIS.

10:45 Karolina Werens, Pieter van Dalen Luna, Andrew S. Wilson and Hans Grados, Multi-tissue isotopic analysis of delta(13)C and delta(15)N values in naturally mummified remains of the Chancay People from Cerro Colorado, Peru.

**11:00 – 11:45 Poster Session 5: Advances in Biological Anthropology and Osteoarchaeology**

53. Fiona Brock, Charlotte Loy and Chris Dyer, Investigating the effects of diagenesis on bones at the Neolithic site of Eton Causewayed Enclosure, UK.

54. Caitlin Thurley, Andrew Holland and Andrew Wilson, 3D Computer modelling techniques for crania: an osteometric and geometric morphometric assessment.

55. Paola Ponce, Gianni GAllello, Handon Yang, Maria Luisa Cervera and Adrienne Morris, A biomolecular study on the presence of mercury in syphilitic skeletons from London.

56. Holger Schutkowski and Chris Stantis, The mobility isotope baseline for ancient Egypt and Nubia – a metadata review.

57. Emily Arnold, Charlene Greenwood and Keith Rogers, The effect of mechanical function on physicochemical differences in bone mineral.

58. Hazel Fransch and Martin Smith, 'Close to the bone': investigating the potential of digital microscopy for analysis of taphonomic evidence on skeletal remains.



59. Jessica Dolding-Smith, Rosie Pitfield, Chris Deter and Patrick Mahoney, A histomorphometric approach to puberty in the archaeological record.

60. Corinne Feuillatre, Julia Beaumont, Henry Jackson and Fadil Elamin, Isotopes and early reproductive life: a pilot study using modern Sudanese teeth.

61. Amber Collings, 3D virtual and physical fit analyses of burned and fragmented skeletal evidence.

63. Nina Maaranen, Sonia Zakrzewski and Holger Schutkowski, Hyksos in Egypt – investigating migration using dental nonmetric trait analysis.

64. Lucy Timbrell, Investigating the strength of geometric morphometrics in studying population differences in the basicrania of closely-related human groups.

**11:45 – 13:00 Podium presentations: Session 8 - In Honour of Prof Holger Schutkowski**

11:45 Jo Buckberry, Solange Bohling, Casandra Hall, Julia Beaumont, Derek Hamilton and Beverley Balling-Smith, Life and death on the Udal: the Early Bronze Age skeletal remains from RUX6, North Uist.

12:00 Samantha Field, Simon Mays and Sonia Zakrzewski, Dental wear through the ages: a quantitative investigation.

12:15 Hannah Haydock, Changes in infant feeding practice through the Post-Medieval period in England.

12:30 Richard Mikulski, Holger Schutkowski, Martin Smith and Piers Mitchell, All the King's men? Characteristic Crusader group identity in commingled remains from Late Medieval mass grave deposits in Sidon, Lebanon.

12:45 Chris Stantis, Holger Schutkowski and Arkadiusz Sołtysiak, Reconstructing breastfeeding and weaning practices in Bronze Age Near East using stable nitrogen isotopes.

**13:00 – 13:30 Prizes and close of conference.**

**13:30 Lunch and Departure.**