





United Kingdom Archaeological Sciences 2019 - Manchester, UK

24th-26th April: Manchester Institute of Biotechnology

WEDNESDAY 24th APRIL

10.00 Registration and Coffee

10.30 Opening remarks

Palaeoclimate and Environmental Change

- 10.40 Rhiannon Stevens UP North: colonisation, cultural diversification and climate change after the Last Glacial Maximum
- 11.00 Sarah Pederzani Using isotope zooarchaeology to reconstruct late Pleistocene climate and seasonality: new evidence from La Ferrassie, France
- 11.20 Kate Britton Shifting baselines: exploring plasticity in herbivore dietary ecology in late Pleistocene France using stable isotope analysis
- 11.40 Jennifer Jones Adaptability, resilience and environmental buffering during the late Pleistocene in Northern Spain: a biomolecular approach
- 12.00 Seren Griffiths Events and processes: the importance of competing analytical scales in palaeoenvironmental and geochronological analysis.
 Holocene case studies from the Republic of Ireland and the United Kingdom

12.20 – 13.20: Lunch

- 13.20 Elizabeth Stroud Early medieval agriculture: exploring evidence for open field systems
- 13.40 Michell House Exploring cattle management and procurement at Great Zimbabwe (AD1200–1700) using stable isotope analysis
- 14.00 Emma Loftus Stable isotope investigations of Later Stone Age shellfishing and local climate changes on the South African west coast
- 14.20 Ayusha Nayak Tales of resilience: stable isotope approaches to cultural change and dietary reconstructions in South Asia
- 14.40 Gundula Müldner Putting SW England on the (Sr isotope) map: insights from the Exeter: A Place in Time project

15.00-15.30: Coffee

Post-Domestication Adaptations

- 15.30 Loïc Harrault Animal domestication in the high Arctic: integrated science and ethnography applied to the interpretation of Yarte VI on the Yamal Peninsula, northwest Siberia
- 15.50 Andrew Hare The origin and spread of sheep using ancient DNA
- 16.10 Michael Wallace Going beyond barley: adaptation and importation of barley varieties to northern Scotland
- 16.30 Michael Scott Whole genome sequence from 3000-year-old Egyptian emmer wheat reveals dispersal and domestication history

Evening event – Manchester Museum (Fossil Gallery) wine reception 18.00-20.00

THURSDAY 25th APRIL

Diet and Subsistence

- 9.10 Simon Hammann Investigating intra-site dietary variations at the Roman-British defence fort of Vindolanda
- 9.30 Caitlin Greenwood Dairying in the Roman Circucester hinterland.
- 9.50 Alice Ughi Investigating revolution or transition in agriculture, animal husbandry and human diet in medieval Sicily: a stable isotope approach
- 10.10 Alison Harris Accessing the childhood diets of Bering Sea coast huntergatherers through carbon isotope analysis of dental collagen amino acids
- 10.30 Vaughan Grimes ... and (no) thanks for all the fish! Diet reconstruction in Medieval to post-Medieval Belgium using carbon isotope analysis of bone collagen amino acids

10.50-11.20: Coffee

- 11.20 Orsolya Czére Ploughing the waves: reconstructing urban dietscapes in Medieval maritime Scotland
- 11.40 Emma Lightfoot Isotopic variation in foxtail millet (*Setaria*) with variety and watering regime
- 12.00 Jack Dury Consideration of freshwater and multiple marine reservoir effects: dating of individuals with mixed diets from northern Sweden
- 12.20 Lisa Lodwick Agricultural economies at Roman villas: Isotopic and archaeobotanical evidence for changes in cereal production strategies in Iron Age and Roman Britain

12.40–13.40: Lunch & Poster session 1 (odd numbered posters)

13.40–14.20 Plenary lecture by Prof. Richard Evershed Milking the residues: molecular and isotope signals from human prehistory

Biomolecular Archaeology

- 14.20 Madeleine Bleasdale The proteomic analysis of ancient dental calculus from Eastern Africa: current applications, pitfalls and future prospects
- 14.40 Abigail Ramsøe DeamiDATE 1.0: Site-specific deamidation as a tool to assess authenticity of members of ancient proteomes

15.00-15.30: Coffee

- 15.30 Carla Soto Quintana Archival proteins: parchment manufacturing and its effects on collagen degradation
- 15.50 Kristine Korzow Richter Integrating molecular identification techniques into site interpretations
- 16.10 Sam Leggett Why we should 'play' more with stable isotope data an adventure in multivariate statistics and Anglo-Saxon teeth
- 16.30 Angela Lamb Simultaneous δ^{13} C, δ^{15} N and δ^{34} S analysis of 1 mg of bone collagen: analytical improvements

Social events:

<u>Andrew Davison (Historic England) presentation to be held at Beer Nouveau microbrewery (18.30-19.00)</u>

The way out of darkest England: Temperance buildings in Manchester and the NW

Campus tour with the Browns (20.00)

FRIDAY 26th APRIL

Mobility and Migrations

- 9.10 Shevan Wilkin Pastoralism and agriculture on the ancient Eastern Eurasian Steppe through multi-proxy archaeological data sets
- 9.30 Alcàntara Fors Keeping tabs on cattle mobility through geometric morphometrics, finite-element analysis and cross-sectional properties
- 9.50 Judith Muñoz Sogas Travelling amphorae and thirsty seafarers at the temple of Kommos
- 10.10 Christopher Snoeck Stonehenge rising from the ashes

10.30-11.00: Coffee

Imaging and Chemical Analysis in Archaeology

- 11.00 Kate Fulcher Molecular analysis of ritual black liquids applied to ancient Egyptian coffins
- 11.20 Ki Suk Park Application of image analysis for the identification of the ceramic pottery production technologies of the North Caucasus (Russia) in the Bronze/Iron Age
- 11.40 Barbara Veselka– Debunking the dentine: micro-CT and histological assessment of a mineralisation defect in teeth attributed to vitamin D deficiency in two 17th–19th century Dutch communities
- 12.00 Patrick Randolph-Quinney Application of advanced tomographic imaging to understand the origin and evolution of human cancer: issues of quantitative histopathology, homology, and clinical validation

12.20–13.20: Lunch & Poster session 2 (even numbered posters)

- 13.20 Jennifer Wakefield Looted ancient Egyptian tomb mummy restoration in ancient times
- 13.40 Yali Yun Scientific analysis of metal objects and glass unearthed from the Han Zunian tomb of the Northern Qi Dynasty (550AD–577AD), China
- 14.00 Helen Whelton Faecal biomarker analysis of coprolites as a means of investigating the nature and timing of the earliest human occupation of North America

14.20 Jessica Munkittrick – Exploring sources of lead in children during colonial settlement of Northeastern North America during the 18th and 19th centuries

14.40-15.00 Coffee

Biological Anthropology

- 15.00 Richard Madgwick Mortuary practices in Iron Age South West England: a multi-scalar approach
- 15.20 Sina White Survival comparative of a medieval hospital and lay cemeteries
- 15.40 Eleanor Joan Green London through the ages: a genetic investigation of the Thames skull collection
- 16.00 Yaowu Hu Osteobiography of a potter near the Oupan kiln, Anhui, China during the early Tang Dynasty (544–644 cal AD) by osteological and multistable isotopes approach
- 16.20 Lara Cassidy The genomics of megaliths: exploring social structure in Irish Neolithic civilization through ancient DNA analysis
- 16.40 Concluding remarks and prizes

<u>Social event – Conference dinner in Christie's Bistro (18.30)</u>

