UKAS Programme Outline

Please note, only presenter names are listed below. For full paper authorships, please see abstract booklet.

20 April 2022

08.00 – 8.50  Registration desk open and Coffee King’s College Conference Centre
08:50 – 09.00  Welcome and Conference Opening

09.00 – 10.40  Session One – Animals, Humans and the Environment
  09.00 – 09.20   Carly Ameen
                   Burrowing into the bio-cultural history of rabbits
  09.20 – 09.40   Victoria Mullin
                   Cattle on the Western Atlantic Edge of Europe: An Ancient Genomic Tale
  09.40 - 10.00  Helen Whelton
                   Compound-specific radiocarbon dating of faecal biomarkers
  10.00 – 10.20  Karen Milek
                   Living with Vikings: geoarchaeology, lipid biomarkers, and interdisciplinary perspectives on human-animal relations in the Viking Age
  10.20 – 10.40  Colin Smith
                   Investigating Late Quaternary palaeoenvironment in the Central Murray River Valley using amino acid stable isotopic signals in shells of freshwater mussels (Alathyria jacksoni)

10.40 – 11.10  Coffee

11.10 – 12.50  Session Two – Animals, Humans and the Environment
  11.10 – 11.30   Sarah Pederzani
                   A multi-isotope study of palaeoenvironment and herbivore palaeoecology during the late Neanderthal occupation of Axlor cave, Spain
  11.30 – 11.50  Jennifer Jones
                   Exploring the Palaeoecology of horses at Las Caldas Cave (Asturias, Spain) using multi-isotope methods: Implications for understanding human subsistence amidst changing environmental conditions of the Solutrean and Magdalenian
  11.50 – 12.10  Mael Le Corre
                   Reconstruction of Rangifer palaeomigrations by linking intra-tooth strontium isotope profiles to bioavailable strontium isoscapes using computational modelling
  12.10 - 12.30  Mélanie Fabre
                   Investigating Neolithic and the Middle Ages caprine herds mobility in French island of Corsica
12.30 – 12.50 Judith Sealy
*Coastal settlement patterns in western South Africa from Sr and C isotopes in hunters & herders*

12.50 – 13.40 Lunch

13.40 – 15.20 Session Three – Form and Function – Production and Use in Past Societies

13.40 – 14.00 Isabella Caricola
*Organic Residue Analysis Reveals the Function of Bronze Age Metal Daggers*

14.00 – 14.20 Isabel Wiltshire
Investigating Early Neolithic ceramics and diet in Britain through stable carbon isotope analysis and compound-specific radiocarbon dating of absorbed lipid residues in pottery.

14.20 – 14.40 Miranda Evans
*Palaeoproteomics reveal evidence of dairy processing in Neolithic Funnel Beaker pottery*

14.40 – 15.00 Emma Richard-Trémeau
*Pottery fabrics from Malta: characterising Late Punic/Early Roman fabrics from the Żejtun Villa and the sanctuary at Tas-Silġ.*

15.00 – 15.20 Ilaria Calgaro
*Technology and recipes of metal production at 2nd millennium BC Taldysai (central Kazakhstan)*

15.20 – 15:50 Coffee

15.50 – 17.30 Session Four – Form and Function – Production and Use in Past Societies

15.50 – 16.10 Elizabeth Thomas
*Shining Light on Egyptian Mirrors: new scientific research into their metallurgy*

16.10 – 16.30 Jasmine Lundy
*‘Patience is bitter, but its fruit is sweet’: An investigation and discussion of fruit acid extraction and interpretation from medieval and prehistoric archaeological ceramic containers*

16.30 – 16.50 Javier Montalvo
*Evaluating the use of combined molecular evidence and compound-specific $\delta^{13}$C stable isotope analysis to identify maize in South American pre-Hispanic pottery from Chile.*

16.50 – 17.10 Ruairidh Macleod
*No Skin off His Back? Non-destructive ZooMS reveals Origin of Early Medieval Church ‘Daneskins’ Believed to be Human*

17.10 – 17.30 Manasij Pal Chowdhury
*Proteomic investigations of experimental ceramics: Absorption and identification of various dietary proteins*
21 April 2022

08.30 – 09.00  Registration desk open and Coffee

09.00 – 10.40  Session Five - Diet, Subsistence and Health
09.00 – 09.20   Alexandra Morton-Hayward
Archaeological brains: accelerated ageing and models of madness in the Victorian workhouse
09.20 – 09.40  Barbara Veselka
Revealed by fire: Interglobular dentine attributed to vitamin D deficiency visible in cremated human teeth
09.40 - 10.00  Jan Dekker
Imaging Stress: Investigating the spatial distribution of proteins in archaeological teeth using Mass Spectrometry Imaging.
10.00 – 10.20  Eleanor Green
Pre-industrial guts: a combined genomic and proteomic investigation of medieval coprolites
10.20 – 10.40  Diego Armando Badillo-Sanchez
Untargeted metabolomics of Tobacco: a biomolecular study to explore botanical historical collections and modern samples

10.40 – 11.10  Coffee

11.10 – 12.50  Session Six - Diet, Subsistence and Health
11.10 – 11.30   Doris Vidas
Reconstructing Crop Management Practices in Neolithic Bulgaria: Stable Isotope Analysis of Charred Plant Remains from the Chevdar Legacy Collections
11.30 – 11.50  Eléa Gutierrez
Nitrogen, carbon and sulphur isotope analysis of tissues from long-term calorie-restricted mice: implications for palaeodietary reconstructions
11.50 – 12.10  Iain Kendall
Individual amino acid stable isotope analysis identifies different underlying mechanisms driving bulk collagen isotopic signatures
12.10 - 12.30  Katrien Diericki
Finding the right plaice at the right time: analysis of bone collagen provides insight in medieval flatfish exploitation
12.30 – 12.50  Sarah Sandron
Analysis of archaeological dental calculus: a case study from S. Maria della Stella’s monastic community (Saluzzo, Italy)

12.50 – 13.40  Lunch
13.40 – 15.00  **Session Seven - Diet, Subsistence and Health**

13.40 – 14.00  Giulia Formichella  
*Exploring Shifting Roman Subsistence Practises through a Bayesian Meta-Analysis of Isotopic Data*

14.00 – 14.20  Michelle Alexander  
*Potential for compound-specific stable isotope analysis of amino acids to enhance interpretations of Mediterranean human diet*

14.20 – 14.40  Mik Lisowski  
*Biomolecular archaeology of subsistence resource exploitation in medieval Zanzibar*

14.40 – 15.00  Kevin Salesse  
*Fish consumption in Urbs Aeterna? Bulk ($\delta^{34}S$) and compound-specific ($\delta^{13}C$, $\delta^{15}N$) stable isotope evidence from the catacombs of Saints Peter and Marcellinus (Italy, 1st-3rd c. AD)*

15.00 – 15:30  **Coffee**

15.30 – 17.10  **Session Eight - People and Landscapes**

15.30 – 15.50  Jane Evans  
*Using Pb isotopes to discriminate between the major tectonic zones of Britain for provenance studies.*

15.50 – 16.10  Peter Bray  
*Trace element patterns in Roman copper-alloys: a review of the legacy chemical dataset and new British case studies*

16.10 – 16.30  Keri Brown  
*Pots and people of the Neolithic Tavoliere: pXRF analysis of clays and ceramics reveals mobility*

16.30 – 16.50  Angela Lamb and Richard Madgwick  
*Wet feet - Using sulphur isotope analysis to identify wetland dwellers*

17.00 – 18.30  **Drinks Reception and Poster Session**
22 April 2022

08.30 – 09.00  **Registration desk open and Coffee**

09.00 – 10:40  **Session Nine – Case Studies in Archaeological Sciences in Scotland**

09.00 – 09.20   Terry Brown  
*Bere barley: a Bronze Age cereal*

09.20 – 09:40  Charlotte Primeau  
*Analysis of the mortuary cave assemblage from the Covesea Caves, NE Scotland*

09:40 - 10.00  Adeline Morez  
*Imputation and haplotype-based analysis of whole genomes reveal the genomic affinity of the Early medieval Picts*

10:00 – 10:20  Vanessa Reid  
*Integrated Geoarchaeological Methods for the Analysis of Pictish Settlement Structures in Eastern Scotland*

10:20 – 10:40  Kate Britton  
*Symbols, Subsistence and Settlers from the West: Overview and Summary Findings of the Pictish Isotope Project*

10.40 – 11.10  **Coffee**

11.10 – 12.50  **Session Ten - Case Studies in Archaeological Sciences in Scotland**

11.10 – 11.30  Orsolya Czére  
*Life in a medieval melting pot? A multi-isotope and multi-tissue study of a Scottish Royal Burgh*

11.30 – 11.50  Jenna Dittmar  
*Life in medieval Aberdeen: An osteobiographical approach*

11.50 – 12.10  Maeve McCann  
*Genomic analysis of Medieval human remains from the Kirk of St Nicholas, Aberdeen*

12.10 - 12.30  Julia Cussans  
*Integrated study of ecofact data to examine impact of European/Hanseatic trade in post medieval Orkney and Shetland: some preliminary findings.*

12.30 – 13.30  **Lunch**
13.30 – 14.50  **Session Eleven – Past Lives: from Individuals to Population-level Insights**

13:30 – 13.50  William Marsh  
*Initial results from a genomic investigation into the Late Palaeolithic human assemblage excavated from Gough’s Cave (Somerset, UK)*

13.50 – 14:10  Kurt Gron  
*The Strøby Egede Mesolithic burial, Køge Bugt, Denmark: Peptide-based sex determination*

14.10 – 14.30  Ruairidh Macleod  
*Ancient Genomics of an Apparent mid-Holocene Hunter-Gatherer Massacre at Shamanka II, Lake Baikal*

14.30 – 14.50  Hannah Moots  
*Genetic History of Continuity and Mobility in the Iron Age Central Mediterranean*

14.50 – 15.20  **Coffee**

15.20 – 16.40  **Session Twelve – Past Lives: from Individuals to Population-level Insights**

15:20 – 15:40  Francisco Curate  
*Bodies at rest, bodies in pain: burials of individuals of African ancestry in Bucelas (Portugal, 15th-19th centuries AD)*

15:40 – 16:00  Sarah Dalle  
*Strontium isotopic and elemental differences between Metal Ages and Roman individuals in Destelbergen, Belgium*

16:00 – 16:20  Katie Faillace and Ciara Butler  
*Mobility, Kinship and Diet in Early Medieval Wales: New Insights from Commercial Archaeology Projects*

16.20 – 16.40  Sam Leggett  
*Large-scale isotopic data reveal gendered and regional migration patterns in early medieval England*

16.40 – 17.00  **Closing Remarks**

18.30  **Pre-dinner drinks reception**

19.00 – Late  **Conference dinner and Ceilidh in Elphinstone Hall**