



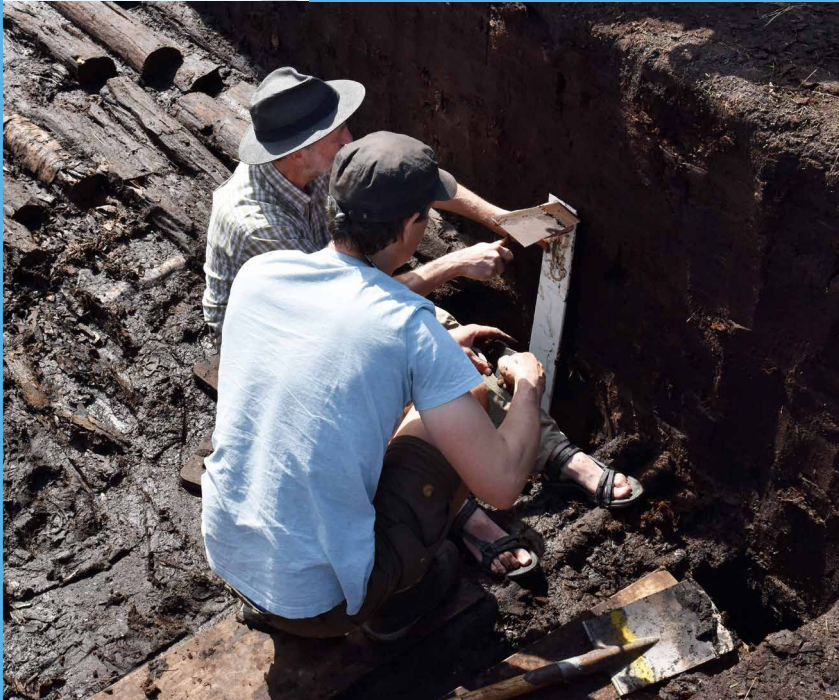
KIEL CONFERENCE

13.-18.03.2023

**Scales of Social,
Environmental &
Cultural Change
in Past Societies**

PROGRAMME

www.kielconference.uni-kiel.de



ROOTS
cluster of excellence


CRC 1266
SCALES OF TRANSFORMATION



KIEL CONFERENCE

Scales of Social, Environmental & Cultural Change in Past Societies

Kiel University, March 13 – 18, 2023

PROGRAMME

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www.kielconference.uni-kiel.de

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*Title: Excavation of Neolithic wooden trackway from Aschen Moor, Lower Saxony, Germany.
(Photo: Jan Piet Brozio)*

Photos: left: Pixabay; next page: CAU Kiel; page 15: A. Heitmann; last page: Till Kühl

WELCOME!

A warm welcome to Kiel!

The Johanna-Mestorf-Academy (with the Cluster of Excellence “ROOTS” and the Collaborative Research Centre 1266 “Scales of Transformation”) is pleased to welcome over 300 active participants, as well as further attendees, to the Kiel Conference: Scales of Social, Environmental and Cultural Change in Past Societies. This conference continues the proud tradition of the “Open Workshop: Socio-Environmental Dynamics Over the Last 15,000 Years: The Creation of Landscapes”, as its seventh iteration, following the conferences in 2009, 2011, 2013, 2015, 2017, and 2019. In addition, the 2021 EAA Annual Meeting took place in Kiel, unfortunately digitally due to the Covid-19 pandemic.

The interplay of environment, social relations, material culture, population dynamics, and human perception are the key factors of socio-environmental changes. The exploration of processes and parameters of societal change enable further exploration of transformations of human-environmental interactions. A transdisciplinary effort of scientists and scholars is necessary to achieve a better understanding of the roots of social, environmental, and cultural phenomena, as well as processes of transformation in a crucial period of human history, from late Pleistocene hunter-gatherers to state societies.

Within this framework, the scientific programme of this conference aims to promote discussion by merging themes that explore the roots of social, environmental, and cultural phenomena and processes, well as different scales of transformations in prehistoric and archaic societies. Therefore, the sessions will explore wide diachronic and interdisciplinary spectra: From Late glacial societies to communities of pre-modern cities, from topics on human adaptation and coping strategies, to those on burial rites, residential behaviour, the formation of complex networks, and past health, as well as different theoretical and methodological approaches covering social, physical, life, and formal sciences. Your diverse contributions will no doubt result in an excellent conference.

I would like to thank Franziska Engelbogen, Jennifer Schüle-Hansen, Nicole Taylor, Andrea Ricci, Anna-Lena Heyn and Angelika Hoffmann, as well as the office teams and student assistants, for their commitment and support in organising this conference!

I wish you an inspiring, fruitful time in Kiel.



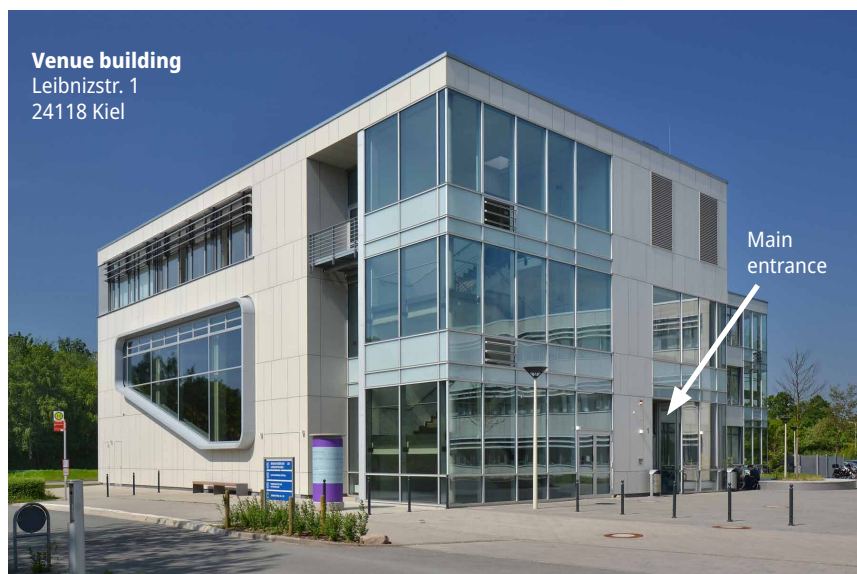
Johannes Müller

Conference President / Excellence Cluster “ROOTS – Social, environmental and cultural connectivity in past societies” / CRC 1266 “Scales of Transformation: Human-environmental interaction in prehistoric and archaic societies”

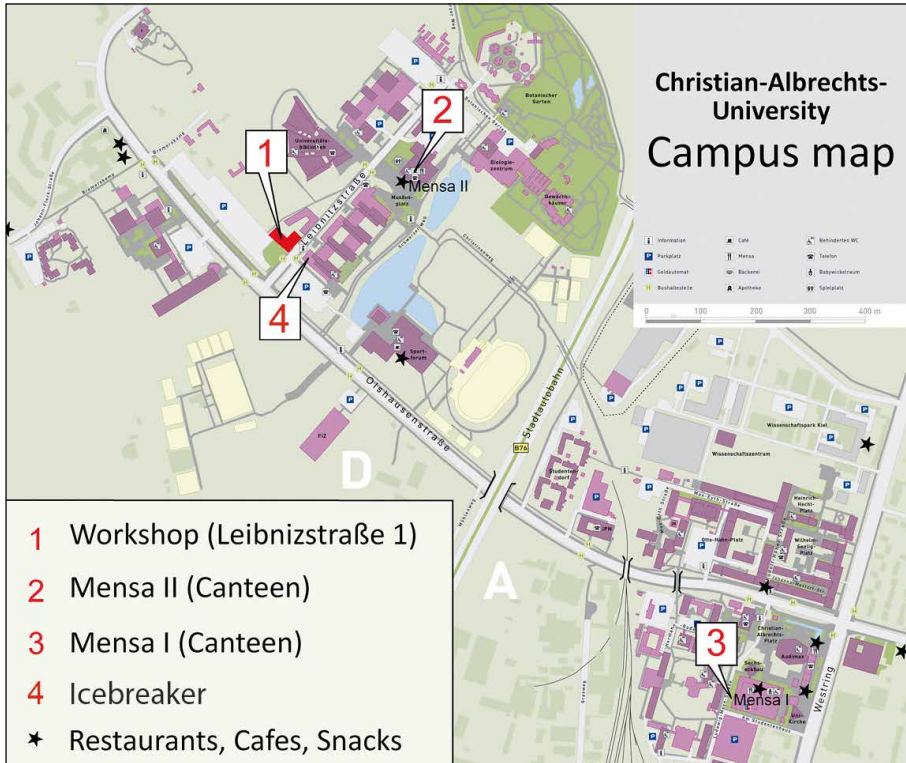


Content

Practical information.....	6
City map.....	7
Scientific programme	
Weekly overview.....	8
Daily overview.....	10
Central Keynotes.....	16
Events.....	17
Session programme	18
Safer Space Policy	103



PRACTICAL INFORMATION



WORKSHOP VENUES

Central venue

Leibnizstr. 1, 24118 Kiel

Icebreaker

Juridicum
Leibnizstr. 2, 24118 Kiel

Conference Dinner

Steigenberger Conti Hansa Hotel
Schloßgarten 7, 24103 Kiel

Bus excursion meeting point

Leibnizstr. 1, 24118 Kiel

GENERAL INFORMATION

Helpdesk

Leibnizstr. 1, Room 104
Opening hours: 8:00 til 18:00

WiFi Access

Please ask at the registration desk

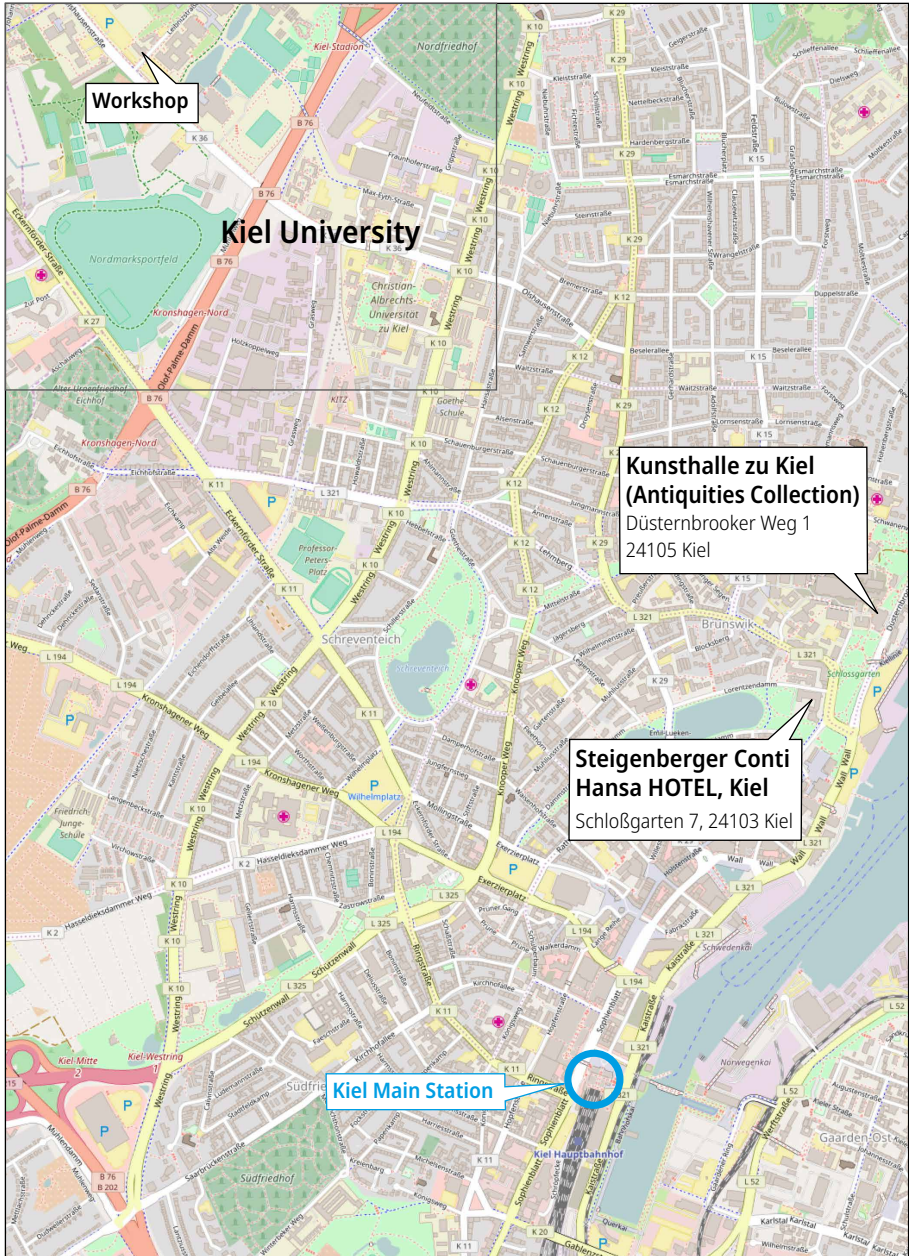
Childcare

Olshausenstr. 80i (Container)













Local transport

Taxi: +49 431 77070
Public transport: www.kvg-kiel.de

CITY MAP



WEEKLY OVERVIEW

	Monday, 13 March	Tuesday, 14 March	Wednesday, 15 March
08:00-08:30			
08:30-09:00		SESSION	SESSION
09:00-09:30	Registration	1 11 16	3 5+15 18
09:30-10:00		25+32 29 36	22 23 35 39
10:00-10:30			
10:30-11:00		SESSION	SESSION
11:00-11:30		1 2 11 16	3 5+15 18
11:30-12:00		25+32 29 36	22 23 35 39
12:00-12:30			
12:30-13:00			
13:00-13:30	Welcome		
13:30-14:00	JMA-Award	SESSION	SESSION
14:00-14:30		1 2 11 16	3 6 5+15
14:30-15:00		25+32 36	20 34 35 39
15:00-15:30			
15:30-16:00	SESSION	SESSION	POSTER SESSION 
16:00-16:30	1 11 17		
16:30-17:00	25+32 29		
17:00-17:30	36 41	8 16 22 23 36	
17:30-18:00			
18:00-18:30	Central Keynote	Central Keynote	
18:30-19:00			
19:00-19:30			
19:30-20:00	Icebreaker 		Conference Dinner 
20:00-20:30			
20:30-21:00			

WEEKLY OVERVIEW

Thursday, 16 March



SESSION

3 6 5+15
20 34 42



SESSION

3 6 5+15
34 38 42



SESSION

9 13 24
31 38 42



SESSION

9 13 14
24 31 38

Central Keynote

**25th Anniversary of the
Journal of Neolithic
Archaeology**

Friday, 17 March



SESSION

4 13 14
27 37



SESSION

4 13 14
27 37



SESSION

4 14 37



Central Keynote

Final Plenary Meeting

Saturday, 18 March

08:00-08:30

08:30-09:00

09:00-09:30

09:30-10:00

10:00-10:30

10:30-11:00

11:00-11:30

11:30-12:00

12:00-12:30

12:30-13:00

Excursions

13:00-13:30

13:30-14:00

14:00-14:30

14:30-15:00

15:00-15:30

15:30-16:00

16:00-16:30

16:30-17:00

17:00-17:30

17:30-18:00

18:00-18:30

18:30-19:00

19:00-19:30

19:30-20:00

20:00-20:30

20:30-21:00

Monday, 13 March



15:30 – 17:30

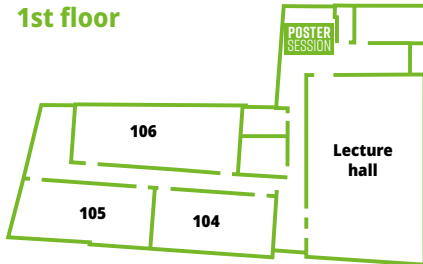
18:00 – 19:00

FLOOR PLAN LEIBNIZSTRASSE 1

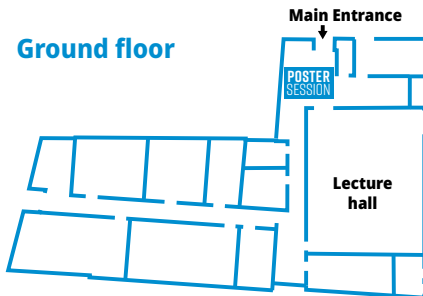
2nd floor



1st floor



Ground floor



ROOM 209 **SESSION 1**
 Mobility and exchange in the Late Neolithic and Bronze Age – Raw materials, networks, innovations

ROOM 208 **SESSION 17**
 Across Borders: Interdisciplinary Approaches to Bounded Space, Segregation, and Social Inequality in Past and Present

ROOM 207 **SESSION 41**
 Stone Age seafaring and early maritime societies

ROOM 204 **SESSION 25+32**
 Comparing Scales and Transformation in Population Dynamics: Old and New Challenges

ROOM 106 **SESSION 11**
 Between invasion and domestication: rethinking the socio-environmental ROOTS of crops, weeds and invasive species

ROOM 105 **SESSION 29**
 Macro-scale patterns in European prehistory 6000-1000 BCE

Lecture hall **SESSION 36**
 Telscape: New insights into the human multiple land-use and impact on the environment in the European Neolithic

CENTRAL KEYNOTE
 L. Sanjuán

DAILY OVERVIEW

Tuesday, 14 March



8:30 – 10:00

10:30 – 12:00

13:30 – 15:00

15:30 – 17:30

18:00 – 19:00

ROOM 209

SESSION 1

Mobility and exchange
in the Late Neolithic and Bronze Age –
Raw materials, networks, innovations

SESSION 23

Through the flames and into
the grave – multidisciplinary
research into past and present
cremation practices and burials

ROOM 208

SESSION 16

Between over-exploitation and sustainability: Extraction of resources
as a driver for societal change and inequality

ROOM 207

SESSION 2

Beyond Gender transformations?
Archaeological context and intersectionality

ROOM 204

SESSION 25+32

Comparing Scales and Transformation in Population
Dynamics: Old and New Challenges

SESSION 22

On course to drowned land-
scapes of the North Sea – cultural
aspects, preservation potential
and geoscientific challenges

ROOM 106

SESSION 11

Between invasion and domestication: rethinking the socio-
environmental ROOTS of crops, weeds and invasive species

ROOM 105

SESSION 29

Macro-scale patterns in European
prehistory 6000-1000 BCE

SESSION 8

Analog Modelling the Late
Neolithic and the Early Bronze

Lecture hall

SESSION 36

Tellscape: New insights into the human multiple land-use and impact
on the environment in the European Neolithic

**CENTRAL
KEYNOTE**
D. Fuller

DAILY OVERVIEW

Wednesday, 15 March



8:30 – 10:00

10:30 – 12:00

13:30 – 15:00

15:30 – 17:30

18:00 – 19:00

ROOM 209

SESSION 23

Through the flames and into the grave – multidisciplinary research into past and present cremation practices and burials

SESS. 34

Barrows as records of human activities

ROOM 208

SESSION 18

Prehistory of politics – politics of prehistory

SESS. 20

De-escalation Strategies in Past Societies

ROOM 207

SESSION 39

Waterscape: Humans, Environment, and Hydrology in the Holocene

ROOM 204

SESSION 22

On course to drowned landscapes of the North Sea – cultural aspects, preservation potential and geoscientific challenges

SESSION 6

Household archaeology: new answers for old questions...

ROOM 106

SESSION 5+15

Waterscape Dynamics - Chances and Challenges in Human-Water Interactions

ROOM 105

SESSION 35

Cultivation under uncertainty - the interplay of social and ecological factors in prehistoric and ancient agriculture

Lecture hall

SESSION 3

Craft and apprenticeship in past societies: a barometer of social changes. Methods, Issues and Interpretations

POSTER SESSION

DAILY OVERVIEW

Thursday, 16 March



8:30 – 10:00

10:30 – 12:00

13:30 – 15:00

15:30 – 17:30

18:00 – 19:00

ROOM 209

SESSION 34

Barrows as records of human activities materials, networks, innovations

SESSION 31

Innovations in the Urnfield Culture

ROOM 208

SESS. 20

De-escalation Strategies in Past Societies

SESSION 38

Modeling cultural landscapes through the entanglement of human and non-human agents

ROOM 207

SESSION 42

Scales of Transformation: the power of material minds

ROOM 204

SESSION 6

Household archaeology: new answers for old questions. Multi-analytical and multi-scalar approaches to prehistoric domestic structures

SESSION 24

Mesolithic–Neolithic transformations in Baltic Sea Region: The bioarchaeological perspective

ROOM 106

SESSION 5+15

Comparing Scales and Transformation in Population Dynamics: Old and New Challenges

SESSION 13

Scales of mobility in 3rd millennium BC Europe

ROOM 105

Lecture hall

SESSION 3

Craft and apprenticeship in past societies: a barometer of social changes. Methods, Issues and Interpretations

SESSION 9

ROOTS Past-Present Connectivities Essay Competition

SESS. 14

Understanding past transformations: Complex patterns, scales, and anatomies

CENTRAL KEYNOTE
C. Metzner-Nebelsick

DAILY OVERVIEW

Friday, 17 March



8:30 – 10:00

10:30 – 12:00

13:30 – 15:00

15:30 – 16:30

16:30 – 17:30

ROOM 209

SESSION 4

Museums and university collections in the field of tension of current social discourses

ROOM 208

SESSION 27

Out of context in the Baltic Sea area: people, artefacts and material cultures from the Post-glacial times up to the 1st millennium cal BC

ROOM 207

ROOM 204

SESSION 37

Why do people discard? Questioning the relationship between valuation and behaviour

ROOM 106

SESSION 13

Scales of mobility in 3rd millennium BC Europe

ROOM 105

Lecture hall

SESSION 14

Understanding past transformations: Complex patterns, scales, and anatomies

CENTRAL KEYNOTE
K. Kristiansen

FINAL PLENARY MEETING

Saturday, 18 March

EXCURSION I: "Antiquities Collection Kiel"

A guided tour through the **Antiquities Collection by Manuel Flecker**.

C. 1 hour. Meeting point: 10:00 at the "Kunsthalle zu Kiel", Düsternbrooker Weg 1, 24105 Kiel

EXCURSION II: "Prehistoric Sites in Schlegwig-Holstein"

The route covers about 160 km and will take c. 9 hours (9.00 - 18.00). Departure will be from Leibnizstr. 1. We will go via Bredenbek and Brekendorf to Busdorf/Schleswig, and via Missunde and Kosel to Karlsminde and Jellenbek, then back to Kiel. We will explore Bronze Age, Neolithic, Middle Ages, some Slavs and Danewerk, Jellenbeck and 1864.



Central Keynote 01: Environment, Aggregation and Monumentality in Early Complex Societies: The Case of Valencina (Spain) (c. 3200-2300 BC)

■ **Monday, March 13** • Lecture Hall

18:00 *Leonardo García Sanjuán*

University of Seville, Seville, Spain

Central Keynote 02: From grassland to granary: convergent evolution of millet agriculture in Africa and Asia

■ **Tuesday, March 14** • Lecture Hall

18:00 *Dorian Fuller*

University College London, UCL Institute of Archaeology, London, United Kingdom

Central Keynote 03: Transformation through connectivity in the Central European Bronze Age

■ **Thursday, March 16** • Lecture Hall

18:00 *Carola Metzner-Nebelsick*

Institut für Vor- und Frühgeschichte Archäologie und Provinzialrömische Archäologie, Ludwig Maximilian University of Munich, München, Germany

Central Keynote 04: Neolithic transformations: integrating genetic, cultural and environmental changes

■ **Friday, March 17** • Lecture Hall

15:30 *Kristian Kristiansen*

Department of Historical Studies, University of Gothenburg, Gothenburg, Sweden Maximilian University

Opening Ceremony

■ **Monday, March 13** • Lecture Hall

13:00 **Welcome to Kiel Conference**

13:30 **JMA Award Ceremony**

Ice Breaker Party

■ **Monday, March 13**

19:30 ***Juridicum, Leibnizstr. 2***

Conference Dinner

■ **Wednesday, March 15**

19:30 ***Steigenberger Conti Hansa Hotel, Schlossgarten 7***

25th Anniversary of the Journal of Neolithic Archaeology

■ **Thursday, March 16**

20:00 ***Institute for Pre- and Protohistory, Lecture Hall***

Final Plenary Meeting

■ **Friday, March 17** • Lecture Hall

15:30 ***Leibnizstr. 1***

Session 01: Mobility and exchange in the Late Neolithic and Bronze Age – Raw materials, networks, innovations

Chair: J. Brinkmann, S. Schaefer-Di Maida, H. Wrobel Nørgaard

Monday, March 13 • Room 209

15:30 Session Keynote: Pastures on the move: The deep time emergence of landscapes of mobility

M. Løvschal

Aarhus University & Moesgaard Museum, Højbjerg, Denmark

16:00 Tracing the beginnings of the Late Neolithic and Bronze Age networks: The straight-walled beaker as a super-regional symbol.

S. Schultrich^{1, 2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

16:20 Human mobility and exchange networks in southwestern Sweden during the Neolithic and Early Bronze Age

M. Blank

Department historical studies, University of Gothenburg, Gothenburg, Sweden

16:40 Discussion

16:50 Human mobility in a changing Bronze Age world: Investigating the connections between mobility of people and metal trading networks 1300BC

H. W. Nørgaard

Archaeological Department, Moesgaard Museum, Højbjerg, Denmark

17:10 Consideration about the role of Nuragic Sardinia in the European Late Bronze Age metal trade

S. Sabatini

Historical Studies, University of Gothenburg, Gothenburg, Sweden

Tuesday, March 14 • Room 209

08:30 Alternative pathways to complexity. The Early Bronze Age societies in southeastern Poland

M. Jaeger

Institute of European Culture, Adam Mickiewicz University in Poznań, Poznań, Poland

08:50 A matter of scale of production... A case of a Kugelkopf pin in terms of local/non-local metallurgical production

M. Stróżyk¹, Z. Belka², P. Silska¹, M. Szmyt^{1,3}

¹Prehistoric Archaeology, Archaeological Museum in Poznań, Poznań, Poland, ²Isotope Laboratory, Adam Mickiewicz University, Poznań, Poland, ³Faculty of Archaeology, Adam Mickiewicz University, Poznań, Poland

09:10 Discussion

09:20 New evidence of Bronze Age glass trade: Blue glass beads from the Tumulus culture cemetery of Maklár (NE Hungary)

Á. Mengyán^{1,2}, Z. Hrabák¹, Z. Sz. Osváth³, B. Bajnóczki⁴, M. Braun⁵, L. Pajár³

¹Hungarian National Museum, Budapest, Hungary, ²University of Miskolc, Miskolc, Hungary, ³University of Szeged, Szeged, Hungary, ⁴Institute for Geological and Geochemical Research, Research Centre for Astronomy and Earth Sciences, Eötvös Loránd Research Network (ELKH), Budapest, Hungary, ⁵Institute for Nuclear Research, Eötvös Loránd Research Network (ELKH), Debrecen, Hungary

09:40 Who are you, where do you come from and where do you go? Mobility and connectivity at the beginning of the Urnfield Period

M. Fritzl

Austrian Archaeological Institute, Austrian Academy of Sciences, Vienna, Austria



10:00 Coffee break

10:30 Sources of clay and pigments in the Middle Bronze Age. Case studies from the subcarpathian area of Moldavia (Romania)

A. Drob¹, N. Bolohan², V. Vasilache¹, B. G. Răţoi³, M. Brebu⁴

¹Science Department - Arheoinvest Research Center, Alexandru Ioan Cuza University of Iasi, Iasi, Romania, ²Faculty of History, Alexandru Ioan Cuza University of Iasi, Iasi, Romania, ³Faculty of Geography and Geology, Alexandru Ioan Cuza University of Iasi, Iasi, Romania, ⁴Institute of Macromolecular Chemistry "Petru Poni" Iasi, Romanian Academy, Iasi, Romania

10:50 The Ada Tepe gold mine (LBA) in the context of resources, exchange networks and social (in)equality

L. Burkhardt

Department for Art History and European Archaeology - Seminar for Prehistoric Archaeology,
Martin-Luther-University Halle-Wittenberg, Halle, Germany

11:10 Discussion

11:20 GIS for documenting ancient quarries in Greece and revealing communication routes

A. Chroni^{1,2}, P.-S. Megalooikonomou³

¹School of Rural, Surveying and Geoinformatics Engineering, National Technical University of Athens, Athens, Greece, ²Ministry of Education and Religious Affairs-Hellenic Republic, Athens, Greece, ³School of Applied Mathematics and Physical Science, National Technical University of Athens, Athens, Greece

11:40 Mobility dynamics and socio-technological changes in the mid-late 3rd millennium BC circum-Aegean: reviewing the ceramic evidence

S. Menelaou

Fitch Laboratory, British School at Athens, Athens, Greece



12:00 Lunch break

13:30 Networks of Amber Communities in the Bronze Age

B. Serbe^{1,2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

13:50 The bronze cup from Dohnsen as evidence of social and physical networks

P. Suchowska-Ducke

Faculty of Archaeology, Adam Mickiewicz University, Poznań, Poland

14:10 Equestrian Innovation: Modeling Mobility and Exchange in Eurasia in the 2nd millennium BC

K. Kanne

Archaeology and History, University of Exeter, Exeter, United Kingdom

14:30 Discussion

POSTER SESSION

■ **Wednesday, March 15, 15:30**

Poster **The Viksø helmets re-investigated**

Nørgaard, H. W.

Archaeological Department, Moesgaard Museum, Denmark

Poster **Knowledge transmission and exchange in the European Bronze Age: episteme - techne - praxis**

J. Brinkmann^{1,2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

Session 02: Beyond Gender transformations? Archaeological context and intersectionality

Chair: *F. Engelbogen, S. Grimm, W. Kirleis, J. K. Koch, D. Zentgraf*

■ **Tuesday, March 14, Room 207**

10:30 **Introduction**

10:50 **The social construct 'patriarchy'. A research frame and/or a research object?**

J. K. Koch

HessenARCHÄOLOGIE, Landesamt für Denkmalpflege Hessen, Wiesbaden, Germany

11:10 **That's a good topic for you as a woman, isn't it?**

F. Engelbogen^{1,2}, S. Grimm^{1,3}

¹CRC 1266, Kiel University, Kiel, Germany, ²Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ³Centre for Baltic and Scandinavian Archaeology, Foundation for the Schleswig Holstein State Museums, Schleswig, Germany

11:30 **Adornments from the Mariupol type cemeteries and gender identification by Mykola Makarenko**

N. Mykhailova

Stone Age Department, NASU Institute of Archaeology, Kyiv, Ukraine



12:00 **Lunch break**

13:30 **Gender and Social Identity within the Early and Middle Bronze Age Inhumation Burials from Western Hungary**

E. Melis

Institute of Archaeology, Research Centre for the Humanities, ELKH, Budapest, Hungary

13:50 **"Warriors" and "Weavers": Challenging gender stereotypes in central Italy (Osteria dell'Osa, 1000-500 BC ca) to face modern challenges and impact current policies**

F. Fulminante

Department of Anthropology and Archaeology, Bristol University, Bristol, United Kingdom

14:10 **Discussion**

Session 03: Craft and apprenticeship in past societies: a barometer of social changes. Methods, issues and interpretations

Chair: S. Denis, L. Dumont, D. Kiosak, S. Manem, T. Rimkus

Wednesday, March 15 • Room: Lecture Hall

08:30 Session Keynote: Technological innovation by recombination: A non-deflationary framework for the study of combinatorial invention

M. Charbonneau

African Institute for Research in Economics and Social Sciences, Mohammed VI Polytechnic University, Rabat, Morocco

09:00 Identifying individual skill levels in the Acheulean: challenges and perspectives.

S. Sanchez-Dehesa Galan

Tel Aviv University, Tel Aviv, Israel

09:20 Testing craft specialisation in Neolithic chert economy: A case study from western Anatolia

M. Brandl¹, C. Hauzenberger², P. Filzmoser³

¹Austrian Archaeological Institute, Austrian Academy of Sciences, Vienna, Austria, ²Department of Earth Sciences, University of Graz, Graz, Austria, ³Institute of Statistics and Mathematical Methods in Economics, Vienna University of Technology, Vienna, Austria

09:40 Discussion



10:00 Coffee break

10:30 An intrinsic learning: lithic technology transmission in Bronze Age Southern Italy

M. Vilmercati

Department of Antiquities, Sapienza University of Rome, Roma, Italy

10:50 Communities of practice and cultural traditions: looking for a scale of comparison

D. Kiosak

Department of Asian and North African Studies, Ca' Foscari University of Venice, Venezia, Italy

11:10 From the chaîne opératoire to the social structure of early Neolithic communities: knappers versus potters from the Danubian and the Mediterranean worlds

S. Denis¹, J. Caro², E. Defranould³, L. Gomart⁴

¹UMR 8068 TEMPS, French National Centre for Scientific Research, Nanterre, France, ²UMR 5608 TRACES, Toulouse, France, ³UMR 7264 CEPAM, Côte d'Azur University, Nice, France, ⁴UMR 8215 Trajectoires, French National Centre for Scientific Research, Paris, France

11:30 Understanding technological stability and change

V. Roux

French National Centre for Scientific Research, Nanterre, France



12:00 Lunch break

13:30 Group and individual variability in pottery production – a case study of the LBK site Cząstków Polski XII in Mazovia, Poland

J. Pyzel¹, L. Gomart²

¹Institute of Archaeology, Maria Curie-Skłodowska University, Lublin, Poland, ²Centre national de la recherche scientifique, Paris, France

13:50 Organizing the pile of sherds: can the Kohonen maps cope?

A. Korokhina^{1,2}

¹Institute of Archaeology, National Academy of Sciences of Ukraine, Kyiv, Ukraine, ²Leibniz Institute for the History and Culture of Eastern Europe, Leipzig, Germany

14:10 Learning without forgetting: Early Iron Age Iberian potters between wheel and handmade techniques.

B. Cutillas-Victoria^{1, 2, 3}

¹Institute of Nanoscience and Nanotechnology, National Centre of Scientific Research "Demokritos", Athens, Greece, ²Department of Prehistory and Archaeology, University of Murcia, Murcia, Spain, ³Centre of Excellence in Ancient Near Eastern Empires, University of Helsinki, Helsinki, Finland

14:30 The sociological landscape of Martinique (French Antilles) during the Early Ceramic period: first results based on the study of pioneer waves of colonization through the analysis of ceramic technological traditions

S. Manem

CNRS, UMR 8068 TEMPS, Nanterre Cedex, France

Thursday, March 16 • Room: Lecture Hall

08:30 First Metallurgy in Greater Poland

D. Żurkiewicz^{1,2}, M. Stróżyk³, P. Silska³, M. Szmyt^{2,3}, A. Garbacz-Klempka⁴

¹Archeological Museum in Poznań – Pałac Górków, Poznań, Poland, ²Adam Mickiewicz University, Faculty of Archaeology, Poznań, Poland, ³Archaeological Museum in Poznań, Poznań, Poland, ⁴AGH University of Science and Technology in Cracow, Cracow, Poland

08:50 Jewelry workshops made of metal (gold, copper) and other materials from Cheile Turzii (Cluj County, Romania)

G.- C. Lazarovici¹, C.-M. Lazarovici²

¹Prehistory Department, Lucian Blaga University, Sibiu, Romania, ²Prehistoric Department, Institute of Archaeology, Iași, Romania

09:10 Transmission patterns in the production of Bronze Age solid-hilted swords

L. Dumont^{1,2}, M. Boone³, I. Josipovic³, L. Van Hoorebeke³

¹Department of Archaeology, Ghent University, Ghent, Belgium, ²UMR 6298 ARTEHIS, University of Burgundy, Dijon, France, ³Department of Physics and Astronomy, Ghent University, Ghent, Belgium



10:00 Coffee break

10:30 Revival of old osseous collections: latest evidence of Final Palaeolithic osseous implements in northwestern Lithuania

T. Rimkus^{1,2,3}, M. Iršėnas², A. Butrimas², K. Mannermaa^{2,4}

¹Centre for Baltic and Scandinavian Archaeology, Schleswig-Holstein State Museums Foundation, Schleswig, Germany, ²Institute of Art Research, Vilnius Academy of Arts, Vilnius, Lithuania, ³Institute of Baltic Region History and Archaeology, Klaipėda University, Klaipėda, Lithuania, ⁴Department of Cultures, Faculty of Arts, University of Helsinki, Helsinki, Finland

10:50 Directly dated Late Upper and Final Palaeolithic osseous artefacts from collections in the Central European low mountain ranges. New data – new questions

S. Pfeifer

Seminar Prehistoric Archaeology, Friedrich Schiller University Jena, Jena, Germany

11:10 Synergy of Stone Age technologies: new research on slotted bone points from Latvia

A. Macāne^{1,2}, T. Rimkus^{3,4,5}, M. Kalniņš², I. Zagorska²

¹Department of Cultures, University of Helsinki, Helsinki, Finland, ²Institute of Latvian History, University of Latvia, Riga, Latvia, ³Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ⁴Institute of Baltic Region History and Archaeology, Klaipėda University, Klaipėda, Lithuania, ⁵Institute of Art Research, Vilnius Academy of Arts, Vilnius, Lithuania

Session 04: Museums and university collections in the field of tension of current social discourses

Chair: *M. Flecker, K. Iwe*

■ **Wednesday, March 15, Room 209**

08:30 **Introduction**

08:50 **Session Keynote: Looking back at 2022 – challenges completed?**

K. Iwe

Book Museum, Saxon State and University Library Dresden, Dresden, Germany

09:20 **Discussion**

09:40 **Old Museums in New Times**

S. Vogt

Coins and Medals, Museum August Kestner, Hannover, Germany



10:00 **Coffee break**

10:30 **Museums, Heritage and Hate Speech in Iceland: Speculations about white supremacy, Viking imagery, museums, and care in a changing world**

A. Bergsdóttir^{1, 2}, E. Eyþórsdóttir³

¹Faculty of Sociology, Anthropology, and Folkloristics, University of Iceland, Reykjavík, Iceland, ²Research Centre on Ocean, Climate, and Society, University of Copenhagen, Copenhagen, Denmark, ³University of Akureyri, Faculty of Social Sciences, Akureyri, Iceland

10:50 **Acquisitions, Cultural Heritage Protection and the Art Market in Classical Archaeological University Collections. A Statistical Analysis**

S. Krienen

Archäologisches Institut und Sammlung der Gipsabgüsse, Klassische Archäologie, Georg-August-University Göttingen, Göttingen, Germany

11:10 **Discussion**

11:20 **University Heritage – a comparative study of the Una Europa alliance universities**

M. Silva Porto^{1, 2}

¹Institut für Archäologie, Humboldt University of Berlin, Berlin, Germany, ²Université Paris 1 Panthéon-Sorbonne, Paris, France

11:40 Staging the Past. Responsibilities of Museums today*L. Adlung-Schönheit*

Humanities, Hamburg University of Technology, Hamburg, Germany

**12:00 Lunch break****13:30 Local residents dig into their past- community archaeology in a village in Schleswig Holstein***I. E. Rau¹, K. Schöps^{2,3}, C. Lewis⁴*

¹Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ²Leibniz Institute for Science and Mathematics Education, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁴University of Lincoln, Lincoln, United Kingdom

13:50 How to display the German Peasants' War? An emotional approach*M. Veronesi*

Kunst- und Kulturgeschichte, Landesmuseum Württemberg, Stuttgart, Germany

14:10 Representation matters: On diversifying reconstructed images of the past in current museum*N. Scheyhing¹, J. Zalea Matias², D. Gutmiedl-Schumann³*

¹Kulturbetriebe Burgenlandkreis GmbH, Arche Nebra, Nebra, Germany, ²Wilbur Wright College, Chicago, United States of America, ³Department of Social Sciences and Public Affairs, Historical Institute, Bundeswehr University Munich, Neubiberg, Germany

14:30 History of the one collection from the Cucuteni-Trypillia Site in Central Ukraine*M. Lobanova*

Department of Archaeology and Museology, Masaryk University, Brno, Czech Republic

POSTER SESSION**Wednesday, March 15, 15:30 • Lecture Hall****Poster Exhibition: Discovering the past. Female Archaeologists in Schleswig-Holstein***Koch, J. K.^{1,2}*

¹HessenARCHÄOLOGIE, Landesamt für Denkmalpflege Hessen, Germany

Session 5 & 15: Waterscape Dynamics - Chances and Challenges in Human-Water Interactions

Chair: *J. P. Brozio, I. Feeser, S. Grimm, D. Groß, C. Heitz, H. Lübke, L. Mevel*

Wednesday, March 15 • Room 106

08:30 Archaeozoological studies on *Rangifer tarandus* in the Ahrensburgian Tunnel Valley

N. Kipke

Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany

08:50 Did they come for the lake? Late Palaeolithic settlement patterns in Lieth Moor, dist. Pinneberg/Germany and beyond

S. Grimm^{1,2}, S. Detjens^{1,2}, B. V. Eriksen^{1,2,3}, T. Reuter¹, M.-J. Weber^{1,2,3}

¹Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

09:10 Session Keynote: The Last In Mire – Opportunities and challenges of wetland archaeology in Northern Fennoscandia

S. Koivisto

Archaeology, University of Turku, Turku, Finland

09:40 Diversity and Transformation of Mesolithic Life on the shores of Ancient Lake Duvensee

H. Lübke^{1,2}

¹Centre for Baltic and Scandinavian Archaeology, Schleswig-Holstein State Museums Foundation, Schleswig, Germany, ²CRC 1266, Kiel University, Kiel, Germany



10:00 **Coffee break**

10:30 Adaptations to wetland dynamics: new evidence from palaeoenvironmental reconstructions in context of a Neolithic wooden bog trackway in North-Western Germany

I. Feeser^{1,2,3}, J. P. Brozio^{1,2}, M. Heumüller⁴, H. Agerskov Rose^{2,5}, J. Meadows^{5,6}, L. Shindo^{1,3}, W. Dörfler^{1,2,3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁴Lower Saxony State Office for Heritage, Hannover, Germany, ⁵Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ⁶Leibniz-Laboratory for AMS Dating and Stable Isotope Research, Kiel University, Kiel, Germany

10:50 Six feet under – the sunken neolithic landscape of the Ahlen-Falkenberger Moor

M. Mennenga, A. Behrens, M. Karle, S. Wolters

Lower Saxony Institute for Historical Coastal Research, Wilhelmshaven, Germany

11:10 Discussion

11:20 The search for Stone Age soil archives - projects, chances and challenges

F. Bungenstock, A. Siegmüller, T. Becker, A. Behrens, M. Karle, S. Mahlstedt, M. Mennenga, S. Wolters

Lower Saxony Institute for Historical Coastal Research, Wilhelmshaven, Germany

11:40 Lakes as Paleoenvironmental Archives to Reconstruct Population Dynamics; case study of Lake Kleiner Tornowsee, North-eastern Germany

K. Alinezhad^{1, 2}, W. Doerfler^{1, 2, 3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany



12:00 Lunch break

13:30 Dynamics of the topography of rural settlements in the basin of the Stugna River in the 11th-17th centuries

M. Videiko

Social and Humanitarian Sciences, Kyiv Borys Grinchenko University, Kyiv, Ukraine

13:50 Session Keynote: Just a flat surface to the eye. What we may find when we look deeper into waterscapes

N. Bleicher

Dendroarchäologie, Amt für Städtebau, Zürich, Switzerland

14:20 Making Pottery on the Watershed: Learning Dynamics and Mobility in a Southwestern German “Waterscape” during the Late Neolithic

P. Gleich

Departement of Ancient Civilisations, University of Basel, Basel, Switzerland

14:40 RISE – Climate Change Resilience and Vulnerabilities of Bronze Age Waterfront Communities (2200-800 BCE)*C. Heitz¹, K. Ismail-Meyer²*¹Department of Prehistory, Institute of Archaeological Sciences, University of Bern, Bern, Switzerland,²Department of Environmental Sciences, Integrative Prehistory and Archeological Science, University of Basel, Basel, Switzerland**Thursday, March 16 • Room 106****08:30 MOVE – Cultural Transformations and Spatial Mobility as Resilience Capacity of Lakeshore Settlement Communities at the end of the 4th M BC***A. Hafner, C. Heitz*

Department of Prehistory, Institute of Archaeological Sciences, University of Bern, Bern, Switzerland

08:50 An annualized perspective – New dendrochronological findings on the settlement development of the lakeshore sites “Muntelier, Platzbünden” and “Sutz-Lattrigen, Neue Station” (CH) at the end of the 4th M BC*C. Gottardi¹, M. Bolliger², A. Hafner¹*¹Institute of Archaeological Sciences, Prehistoric Archaeology, University of Bern, Bern, Switzerland,²Department of Dendrochronology, Archaeological Service of Bern, Bern, Switzerland**09:10 Discussion****09:20 MOVE - Mobility, Continuity and Transformations at the end of the 4th M BC. New results from the northern Alpine wetland sites Sutz-Lattrigen and Muntelier, Platzbünden (3400-2700 BC).***D. Schiess, C. Gottardi, A. Scherrer, A. Hafner*

Department of Prehistory, Institute of Archaeological Sciences, University of Bern, Bern, Switzerland

09:40 Finding the Missing Link: new insights into Neolithic pile-dwelling communities of the Carinthia Lakes in South-eastern Austria*M.-C. Ries*

Department of Archaeologies, University of Innsbruck, Innsbruck, Austria



10:00 **Coffee break**

10:30 **Dispilio, Lake Orestias (Kastoria, Greece): new insights into the chronology and architecture of a Neolithic wetland habitation**

K. Kotsakis¹, T. Giagkoulis¹, A. Maczkowski², J. Francuz², A. Hafner²

¹Aristotle University of Thessaloniki, History and Archaeology, Thessaloniki, Greece, ²University of Bern, Institute of Archaeological Sciences, Bern, Switzerland

10:50 **Water Management Strategies in Prehistorical Crete: The Case Study of the Zakros region**

S. Perrakis

Department of Classical Studies, Heidelberg University, Heidelberg, Germany

11:10 **Discussion**

11:20 **Living Dikes: People and the coast in the Wadden Sea area of the northern Netherlands**

A. Conijn, M. Schepers

Centre of Landscape Studies, University of Groningen, Groningen, The Netherlands

11:40 **Water use in settlements of Trypillia culture**

M. Videiko¹, N. Burdo²

¹Social and Humanitarian Sciences, Kyiv Borys Grinchenko University, Kyiv, Ukraine, ²Vice-director, Kyiv Regional Museum of Archaeology, Kyiv, Ukraine



12:00 **Lunch break**

13:30 **Oasean water dynamics: Disentangling climatically- and anthropogenically-forced environmental change in the Western Desert of Roman Egypt**

B. McDonald

Department of Ancient Civilizations, University of Basel, Basel, Switzerland

13:50 **Ancient saltmaking in coastal areas**

G. Neumann-Denzau

Independent researcher, Panker, Germany

POSTER SESSION

■ **Wednesday, March 15, 15:30**

Poster **People – Platforms – Palaeolakes. Preliminary results of a palynological analysis from a Lateglacial-Early Holocene lake-site in northern Zealand (Denmark)**

Krüger, S.^{1,2}, Casati, C.³, Jessen, C.², Sørensen, S. A.³*

¹Environmental Archaeology and Materials Science, The National Museum of Denmark, Denmark

²Museum Nordsjælland, Denmark

Poster **Artisans of the Stone Age: The utilisation of plant- and wood-based raw materials at the Neolithic wetland site of Järvensuo 1, southwest Finland**

Authors: Koivisto, S.^{1,2}, Suomela, J.³, Lempiäinen-Avcı, M.⁴*

¹Archaeology, University of Turku, Finland, ²Department of Education/Craft Studies, University of Helsinki, Finland, ³Biodiversity Unit, University of Turku, Finland

Session 06: Household archaeology: new answers for old questions. Multi-analytical and multi-scalar approaches to prehistoric domestic structures

Chair: *G. Bilotti, M. Dal Corso, F. Polisca*

■ **Wednesday, March 15** • Room 204

11:10 Keynote t.b.a.

11:40 Domestic or symbolic space? The spatial analysis of an uncommon Late Bronze Age structure from the fortified settlement of Coppa Nevigata (Southern Italy)

G. Recchia¹, E. Lucci¹, C. Minniti², M. Vilmercati¹, V. Grisci¹, F. S. Pianelli¹

¹Department of Antiquities, Sapienza University of Rome, Rome, Italy, ²Department of Cultural Heritage, University of Salento, Lecce, Italy



12:00 Lunch break

13:30 Rich house, poor house, beggarman, chief? Comparing households and agro-production at tells and farmsteads of the Bronze Age Otomani

P. R. Duffy^{1, 2}, K. Reed³, A. Gyucha⁴

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³School of Architecture, Oxford Brookes University, Oxford, United Kingdom, ⁴Department of Anthropology, University of Georgia, Athens, United States of America

14:10 Spatial and temporal dynamics of a Village-like settlement derived from C14-dates

L. Gjerpe

Museum of Cultural History, University of Oslo, Oslo, Norway

14:30 Interpretation of settlement use of space during the Scandinavian Iron Age: a case study from Dilling, Norway

I. Hristova¹, J. Linderholm¹, S. Östman¹, S. Ericson¹, P. Buckland¹, K. Hristov¹, R. I Macphail², L. E. Gjerpe³

¹Department of Historical, Philosophical and Religious studies, Umeå University, Umeå, Sweden,

²Institute of Archaeology, University College London, London, United Kingdom, ³Museum of Cultural History, University of Oslo, Oslo, Norway

Household archaeology: new answers for old questions. Multi-analytical and multi-scalar approaches to prehistoric domestic structures

14:50 The Missing Link? Households in Prepottery Neolithic Göbekli Tepe SE Turkey

B. Ögüt¹, L. Clare²

¹German Archaeological Institute, Orient-Department, Berlin, Germany, ²German Archaeological Institute, Istanbul Department, Istanbul, Turkey

15:10 Household-based food production and the social fabric in the Neolithic Vinča culture of the central Balkans

D. Obradović¹, I. Dimitrijević¹, J. Bulatović², D. Filipović^{3, 4, 5}

¹Institute of Archaeology, Belgrade, Serbia, ²Department of Historical Studies, University of Gothenburg, Gothenburg, Sweden, ³Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ⁴CRC 1266, Kiel University, Kiel, Germany, ⁵Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

Thursday, March 16, Room 204

08:30 House holding and food 'hoarding': plant foods in Bronze Age houses in the Carpathian Basin

D. Filipović^{1, 2, 3}, F. Schlütz^{1, 2, 3}, S. Filatova⁴, D. Jovanović⁵, M. Ljuština⁶, F. Bittmann⁷, W. Kirleis^{1, 2, 3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁴Institute of Archaeology, University of Groningen, Groningen, The Netherlands, ⁵Vršac City Museum, Vršac, Serbia, ⁶Department of Archaeology, University of Belgrade, Belgrade, Serbia, ⁷Lower Saxony Institute for Historical Coastal Research (NIhK), Wilhelmshaven, Germany

08:50 Tartessian Public Earthen Architecture: environmental interaction, labour organization and political power at Casas del Turuñuelo.

B. Cutillas-Victoria^{1, 2, 3}, M. Lorenzon³, E. Rodríguez González⁴, S. Celestino Pérez⁴

¹Institute of Nanoscience and Nanotechnology, National Centre of Scientific Research "Demokritos", Athens, Greece, ²Department of Prehistory and Archaeology, University of Murcia, Murcia, Spain, ³Centre of Excellence in Ancient Near Eastern Empires, University of Helsinki, Helsinki, Finland, ⁴Instituto de Arqueología - CSIC, Centro Superior de Investigaciones Científicas, Mérida, Spain

09:10 Discussion

09:20 Reconstructing daily practices through plant remains from Bronze Age Italian sites – Resolution, preservation and interpretative potential of multiple archaeobotanical proxies

M. Dal Corso¹, S. DAquino², C. Nicosia¹

¹Department of Geosciences, University of Padova, Padova, Italy, ²University of Padova, Padova, Italy

09:40 Same Difference? Two long houses from a settlement of the Linear Pottery Culture at Biskupice, site 18 (Carpathian foothill zone, southern Poland)

M. Korczyńska-Cappenberg¹, R. Kenig^{1,2}, M. Nowak², A. Czekaj-Zastawny³, A. Rauba-Bukowska³, M. Roffet-Salque⁴, C. Maule⁴, M. Kapcia¹, A. Wacnik¹, D. H. Werra³, M. Moskal-del Hoyo¹

¹W. Szafer Institute of Botany Polish Academy of Science, Palaeobotany and Palaeoenvironment Group, Kraków, Poland, ²Institute of Archaeology, Jagiellonian University, Kraków, Poland, ³Institute of Archaeology and Ethnology, Polish Academy of Sciences, Kraków, Poland, ⁴School of Chemistry, University of Bristol, Bristol, United Kingdom



10:00 Coffee break

10:30 Settlement and household archaeology in the aggregated settlement Trinca in Northern Moldova

R. Hofmann^{1,2}, G. Sirbu³, S. Heghea³, L. Shatilo^{1,2}, J. Müller^{1,2,4}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³State University of Moldova, Chisinau, Moldova, Republic of, ⁴Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

10:50 Modularity in Late Helladic Architecture: The Case of the Corridor Houses

J. Stühler

Ruprecht-Karls-Universität Heidelberg, Heidelberg, Germany

11:10 Discussion

11:20 Bostel di Rotzo: new insights into the domestic structures' variability in a pre-Alpine Iron Age village

L. Magnini¹, C. Bettineschi², V. Venco³, A. Michielin⁴, E. Griggio⁵, A. De Guio⁵

¹Department of History, Human Sciences and Education, University of Sassari, Bressanone, Italy, ²Faculty of Philology and History, University of Augsburg, Augsburg, Germany, ³Department of History, Human Sciences and Education, University of Sassari, Sassari, Italy, ⁴Department of History and Cultures, University of Bologna, Bologna, Italy, ⁵Department of Cultural Heritage: Archaeology, History of Arts, Cinema and Music, University of Padova, Padova, Italy

11:40 Byre-houses: how reliable are our proxies?

F. Polisca¹, G. Bilotti^{2,3}

¹Cultural Heritage Department, University of Padova, Padova, Italy, ²CRC 1266, Kiel University, Kiel, Germany, ³Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany

Session 08: Analog Modelling the Late Neolithic and the Early Bronze

Chair: Vesa Arponen, John Robb

■ **Tuesday, March 14 • Room 105**

15:30 This workshop session introduces the core ideas behind the analog model being developed in a ROOTS project at Kiel University and offers an opportunity to try out the model. The model seeks to simulate certain selected socio-environmental processes in late Neolithic and early Bronze Age in North Central Europe. The analog model seeks to investigate these questions from an experimental agential perspective afforded by the analog model as something playable by researchers. Of special interest is the modeling of the costs and benefits of selected social interaction processes from inclusive or corporate towards exclusive or personal network forms of social complexity (e.g. Feinman) and how these tie up with archaeological phenomena of the period from material to social changes. After a talk introducing the model (30 minutes), up to 4 audience members have a chance to play the model in supervision of the project's developers and, lastly, participants will be invited to discuss their experience and knowledge gained (2 hours). Any number of interested persons are invited to observe.

Session 09: ROOTS Past-Present Connectivities Essay Competition

Chair: V. Arponen, K. Ott, D. Zentgraf

■ Thursday, March 16 • Lecture Hall

13:30 Introduction

13:40 **“Let them have cake” – Feasting as a regulating practice in past societies**

S. Bockmeyer^{1, 2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

14:10 Discussion

14:20 **Charting the courses of change: A case study exploring the rising flood of AI through examination of recurring patterns between past, present and future**

S. S. Reiter

Environmental Archaeology and Materials Science, National Museum of Denmark, Brede (Kgs. Lyngby), Denmark

14:50 Discussion



15:00 Coffee break

15:30 **Long Day’s Journey into Night: The ‘Divergence Problem’ of Global Explanatory Models in Archaeology**

M. Kempf^{1, 2}

¹CRC 1266, Kiel University, Kiel, Germany, ²Institute of Geosciences, Kiel University, Kiel, Germany

16:00 Discussion

Session 11: Between invasion and domestication: rethinking the socio-environmental ROOTS of crops, weeds and invasive species

Chair: G. Bellini, B. Claassen, A. Erfmeier, S. Filatova, E. Holtgrewe-Stukenbrock, W. Kirleis, B. Krause-Kyora, K. Ott, A. E. Reuter, F. Schlütz, J. Schneeweiß, R. Wilson

■ Monday, March 13, Room 106

15:30 Introduction

15:40 **Between invasion and domestication: rethinking the socio-environmental ROOTS of crops, weeds and invasive species**

W. Kirleis^{1,2,3}, A. Erfmeier^{2,4}, E. Stukenbrock^{2,5,6}, B. Krause-Kyora^{2,3,7}, K. Ott^{2,8}, S. Filatova⁹, F. Schlütz^{1,2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany, ⁴Institute for Ecosystem Research, Kiel University, Kiel, Germany, ⁵Botanical Institute, Kiel University, Kiel, Germany, ⁶MPI for Evolutionary Biology, Plön, Germany, ⁷Institute of Clinical Molecular Biology, Kiel University, Kiel, Germany, ⁸Environmental Philosophy and Ethics, Kiel, Germany, ⁹Archaeology of Northwestern Europe, Groningen, The Netherlands

16:00 **Session Keynote: Grass does not grow faster if you pull: On the transformative history of plants, forests, crops and people**

M. Schreiber

Biology, Marburg, Germany

16:30 Discussion

16:50 **The tangled web of domestication and speciation: the impact of our terminology on modelling early plant use**

J. Bates

Seoul National University, Department of Archaeology and Art History, Seoul, Republic of Korea (South Korea)

17:10 Is preadaptation to disturbance key to agroecosystems invasions? Empirical evidence, discussion, and future research routes

G. Bellini^{1,2}, K. Schrieber¹, A. Erfmeier^{1,2}

¹Institute for Ecosystem Research, Geobotany, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

Tuesday, March 14, Room 106

08:30 Palynological studies shed new light on the Neolithisation process in central Europe

L. Czerniak¹, J. Święta-Musznicka², A. Pędziszewska², T. Goslar³, A. Matuszewska⁴

¹Institute of Archaeology, University of Gdańsk, Gdańsk, Poland, ²Faculty of Biology, University of Gdańsk, Gdańsk, Poland, ³Poznań Radiocarbon Laboratory, Poznań, Poland, ⁴Department of Archaeology, University of Szczecin, Szczecin, Poland

08:50 Discussion

09:10 Ecological niche for rice in Japan during the Yayoi period via species distribution model

L. Brainerd¹, E. R. Crema¹, S. Carrignon¹, M. Madella², A. Yoshida³

¹Department of Archaeology, University of Cambridge, Cambridge, United Kingdom, ²Department of Humanities, Universitat Pompeu Fabra, Barcelona, Spain, ³Department of Humanities, Kagoshima University, Kagoshima, Japan

09:30 Invited Speaker: The Effect of Novel Environment on Domestication Process

X. Liu

Department of Anthropology, Washington University in St. Louis, St Louis, United States of America



10:00 Coffee break

10:30 Exploring the long-term interaction of the opium poppy and past human societies: first results from the archaeological database and contribution of morphometric and genetic analyses

A. Salavert¹, L. Martin^{2,3}, L. Angulo-Lopez¹, I. Baly¹, F. Antolín^{4,5}, H. Oliveira⁶

¹UMR 7209 AASPE, Muséum national d'Histoire naturelle, Paris, France, ²Laboratory of Prehistoric Archaeology and Anthropology, University of Geneva, Geneva, Switzerland, ³UMR 5204 EDYTEM, University of Savoie Mont-Blanc, Le Bourget-du-Lac, France, ⁴Natural Sciences Department, German Archaeological Institute, Berlin, Germany, ⁵Integrative Prehistory and Archaeological Science, University of Basel, Basel, Switzerland, ⁶Interdisciplinary Center for Archaeology and Evolution of Human Behaviour, FCHS, University of Algarve, Faro, Portugal

10:50 **Broomcorn millet cultivation in northern Germany in the Bronze Age: archaeobotanical, paleoclimatic and isotopic insights**

D. Filipović^{1, 2, 3}, E. Herrscher⁴, F. Schlütz^{1, 2, 3}, W. Kirleis^{1, 2, 3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁴UMR 7269, Aix Marseille University, Aix-en-Provence, France

11:10 **Discussion**

11:20 **Inventions and innovations: The origins of spelt wheat**

J. Lechterbeck¹, T. Kerig^{2, 3, 4}, A. Bevan⁵

¹Museum of Archaeology, University of Stavanger, Stavanger, Norway, ²Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany, ⁴Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁵Institute of Archaeology, University College London, London, United Kingdom

11:40 **New discoveries on former cultivation methods by stable isotope (13C, 15N, 34S) studies on medieval rye (*Secale cereale*)**

F. Schlütz^{1, 2}, S. König³, J. Schneeweiß^{1, 2, 4}, F. Bittmann⁵, W. Kirleis^{1, 2, 6}

¹Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ²Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ³Archäologischer Dienst, Ostfriesische Landschaft, Aurich, Germany, ⁴Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ⁵Lower Saxony Institute for Historical Coastal Research, Wilhelmshaven, Germany, ⁶CRC 1266, Kiel University, Kiel, Germany



12:00 **Lunch break**

13:30 **Exploring diversity in chloroplast genomes of medieval *Secale cereale***

B. Claassen^{1, 2, 3}, S. Filatova⁴, B. Krause-Kyora^{1, 5}, W. Kirleis^{1, 6, 7}, E. Holtgrewe-Stukenbrock^{1, 2}

¹Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ²Max-Planck-Institute for Evolutionary Biology, Environmental Genomics, Plön, Germany, ³Botanical Institute, Kiel University, Kiel, Germany, ⁴Institute of Archaeology, Groningen University, Groningen, The Netherlands, ⁵Institute of Clinical Molecular Biology, Kiel University, Kiel, Germany, ⁶Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ⁷CRC 1266, Kiel University, Kiel, Germany

13:50 Invited Speaker: Long-term dynamics of plant invasions: how alien species, their responses to new environmental conditions and interactions with native communities change with residence time

C. S. Sheppard

Institute of Landscape and Plant Ecology, University of Hohenheim, Stuttgart, Germany

14:20 Discussion

POSTER SESSION

Wednesday, March 15, 15:30

Poster Early Neolithic plant remains from the Carpathian foothill zone (southern Poland): a case study of the Biskupice site no. 18

M. Kapcia¹, M. Moskal del Hoyo¹, M. Korczyńska--Cappenberg¹, A. Wacnik¹, R. Kenig², M. Nowak²

¹W. Szafer Institute of Botany PAS, Palaeobotany and Palaeoenvironment Group, Kraków, Poland,

²Institute of Archaeology, Jagiellonian University, Kraków, Poland

Session 13: Scales of mobility in 3rd millennium BC Europe

Chair: *M. Brami, Y. Diekmann, S. Kadrow, B. Preda-Bălănică, V. Heyd, P. Włodarczak*

Thursday, March 16, Room 106

14:20 Environmental conditions of the Gordinești II–Stînca goală settlement from the late 4th millennium BC (Northern Moldova). Case study

M. Rybicka¹, D. Król¹, P. Kittel², G. Sîrbu³, M. Makohonienko⁴, M. Słowiński⁵, A. Wacnik⁶, M. Glowacz¹, D. Pokutta⁷

¹Institute of Archaeology, University of Rzeszów, Rzeszów, Poland, ²Department of Geology and Geomorphology, University of Łódź, Łódź, Poland, ³Faculty of History and Anthropology, State National University of Moldova, Chișinău, Moldova, Republic of, ⁴Department of Geology, Adam Mickiewicz University, Poznań, Poland, ⁵S. Leszczycki Institute of Geography and Spatial Organization, Polish Academy of Sciences, Warszawa, Poland, ⁶Institute of Botany, Polish Academy of Sciences, Kraków, Poland, ⁷Department of Archaeology and Classical Studies, Stockholm University, Stockholm, Sweden

14:40 Across the mountains. Connections between the intra- and extra-Carpathian region at the end of the 4th and the beginning of the 3rd millennium BC

B. Preda-Bălănică

Cultures, University of Helsinki, Helsinki, Finland



15:00 Coffee break

15:30 Central European crisis, culture heterogenization and migrations from the steppes in Late Neolithic

S. Kadrow

Institute of Archaeology, Rzeszów University, Rzeszów, Poland

15:50 Discussion

16:00 Push or pull? Climatic changes on the European-Asian border 5000 years ago and their role in populations dynamics

A. Perșoiu^{1, 2}, A. Feurdean³, I. Perșoiu²

¹Emil Racoviță Institute of Speleology, Cluj-Napoca, Romania, ²Stable Isotope Laboratory, Ștefan cel Mare University, Suceava, Romania, ³Goethe University Frankfurt, Frankfurt am Main, Germany

16:20 Sex bias and selection in the westward expansion of steppe ancestry

R. Eckel¹, J. Blöcher², J. Burger², Y. Diekmann²

¹University of Fribourg, Fribourg, Switzerland, ²University of Mainz, Mainz, Germany

16:40 Discussion

16:50 Social and economic cases of the Corded Ware mobility

P. Włodarczak

Centre for Archaeology of Hills and Uplands, Instytut Archeologii i Etnologii PAN, Kraków, Poland

17:10 Seeking cultural change in 3rd millennium BC in Upper Silesia

M. Furmanek

Institute of Archaeology, University of Wrocław, Wrocław, Poland

Friday, March 17, Room 106

08:30 Modelling resource mobility and multidimensional wealth in Eneolithic Central Europe

M. Nørtoft¹, A. B. Rohrlach²

¹Prehistoric Archaeology, Saxo Institute, University of Copenhagen, Copenhagen, Denmark, ²Department of Archaeogenetics, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

08:50 Migration, mobilities and Corded Ware culture: the case of the Jutland Peninsula

N. N. Johannsen

Department of Archaeology and Heritage Studies, Aarhus University, Højbjerg, Denmark

09:10 Discussion

09:20 The impact of steppe dispersals in Luxembourg: an archaeogenetic approach

M. Brami

Palaeogenetics Group, University of Mainz, Mainz, Germany

09:40 West-to-east directed migrations in the third millennium BC and their impact on the archaeological, genetic and linguistic landscape of Eurasia

V. Heyd

Department of Cultures, Archaeology, University of Helsinki, Helsinki, Finland



10:00 Coffee break

10:30 Session Keynote: t.b.a.

S. Hansen

Deutsches Archäologisches Institut, Eurasien Abteilung, Berlin, Germany

11:00 Discussion

POSTER SESSION

■ Wednesday, March 15, 15:30

Poster A Bronze Age tumulus from Brânzeii Noi (Republic of Moldova). Interdisciplinary approaches

Diaconu, V.^{1}, Simalcsik, A.², Florescu, G.³, Mistreanu, E.⁴*

¹Neamț National Museum Complex, Romania, ²“Olga Necrasov” Center of Anthropological Research, Romanian Academy, Romania, ³Department of Geography, University of Suceava, Romania, ⁴Department of Archaeology, The National Museum of History of Moldova, Moldova, Republic of

Session 14: Understanding past transformations: Complex patterns, scales, and anatomies

Chair: F. Engelbogen, W. Kirleis, J. Müller, N. Taylor

Thursday, March 16, Lecture Hall

16:10 Welcome by CRC 1266 Speakers

16:20 Scales of abstraction: The Kiel conceptual approach from heterogeneous data to interpretations

N. Taylor^{1,2}, J. Kneisel^{1,2,3}, C. Rinne¹, J. P. Brozio^{1,2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

16:40 Prehistoric and early historic Europe: Anatomies of transformation

S. Schultrich^{1,2}, J. An^{1,2}, L. Shatilo^{1,2}, R. Grossmann^{1,2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

17:10 Indicators of Transformation Processes: Change Profile as a Method for Identifying Indicators

F. Engelbogen^{1,2}, O. Nakoinz^{2,3,4}, G. Günther^{3,5}, H. Dietze⁶, C. Zeviani⁶, S. Stoddart⁶, S. Strohm^{1,3}

¹CRC 1266, Kiel University, Kiel, Germany, ²Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ³Institut für Informatik, Kiel University, Kiel, Germany, ⁴Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁵Department of Geography, Kiel University, Kiel, Germany, ⁶Department of Archaeology, University of Cambridge, Cambridge, United Kingdom

Friday, March 17, Lecture Hall

08:30 Scales of political practice and patterns of power relations in Prehistory

S. Schaefer-Di Maida^{1,2}, J. Laabs^{1,2}, M. Wunderlich^{1,2,3}, R. Hofmann^{1,2}, H. Piezonka^{1,2,3}, P.-A. Kreuz^{2,3,4}, S. Sabnis^{1,2}, J. P. Brozio^{1,2}, C. Dickie^{1,2}, M. Furholt^{1,2,3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁴Institute of Classics, Kiel University, Kiel, Germany

08:50 Understanding the Anatomy of Abandonment: the Early Latène Settlement of Hochdorf

A. Jerosch^{1,2}, J. Koschorke^{1,3}, S. Lindauer⁴, T. Scholten^{1,3}, P. Kühn^{1,3}, T. Knopf^{1,2}

¹SFB 1070, Eberhard Karls University of Tübingen, Tübingen, Germany, ²Department of Prehistory and Early History, Eberhard Karls University of Tübingen, Tübingen, Germany, ³Department of Geosciences, Eberhard Karls University of Tübingen, Tübingen, Germany, ⁴Curt-Engelhorn-Zentrum Archäometrie GmbH, Mannheim, Germany

09:10 The early Balkan village: Transformations of Neolithic and Chalcolithic settlements patterns in South-Eastern and Eastern Europe

R. Hofmann^{1,2}, L. Shatilo^{1,2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

09:30 From Michelsberg to Wartberg: anatomy of a transformation

C. Rinne^{1,2}, N. Schwarck^{1,3}, R. Hoffmann^{1,3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany

09:50 Short Poster Presentations



10:00 Coffee break

10:30 The origin of Neolithic copper in the northern Central European lowlands and southern Scandinavia: connectivities on a European scale

J. P. Brozio^{1,2}, J. Müller^{1,2,3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

10:50 Bronze Age Transformations in North-Central Europe

S. Schaefer-Di Maida^{1,2}, J. Kneisel^{1,2,3}, I. Feeser^{1,2,3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

11:10 A new mass deposition of headless skeletons at the Early Neolithic settlement of Vráble, south-west Slovakia

M. Furholt^{1,2,3}, I. Cheben⁴, M. Wunderlich^{1,2,3}, K. Fuchs^{2,3,5}, K. Szilágyi¹, Z. Hukelová⁴, M. Ruttikay⁴, T. Kühn^{1,3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁴Archaeological Institute, Slovakian Academy of Sciences, Nitra, Slovakia, ⁵Institute of Clinical Molecular Biology, Kiel University, Kiel, Germany

11:30 Sledges, wagons and other transportation means in prehistory and early history of the North Pontic

M. Shatilo^{1, 2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

11:50 Short Poster Presentations



12:00 Lunch break

13:30 Headline hunters? How to get people interested in Stone Age transformations

S. Grimm^{1, 2}, *S. Detjens*^{1, 2, 3}, *B. V. Eriksen*^{1, 2, 3}, *M.-J. Weber*^{1, 2, 3}, *H. Lübke*^{1, 2}, *U. Schmölcke*^{1, 2, 3}

¹Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

13:50 Do patterns of socio-economic and cultural change occur in Neolithic and Bronze Age societies in the North European Plain? Human-environmental interaction concerning Bourdieu's forms of capital

J. P. Brozio^{1, 2}, *J. Kneisel*^{1, 2, 3}, *S. Schaefer-Di Maida*^{1, 2}, *J. Laabs*^{1, 2}, *I. Feeser*^{1, 2, 3}, *A. Ribero*^{1, 2}, *S. Schultrich*^{1, 2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

14:10 Cereal Agriculture in Prehistoric North-Central Europe and South-East Iberia: Changes and Continuities as Potential Adaptations to Climate

J. Schirrmacher^{1, 2}, *I. Feeser*^{1, 2, 3}, *H.-P. Stika*⁴, *W. Kirleis*^{1, 2, 3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁴University of Hohenheim, Hohenheim, Germany

14:30 A comparison of supra-regional climate variability and demographic developments in prehistoric times: First results from western Europe during the Neolithic and Bronze Age

M. Weinelt^{1, 2, 3}, J. Schirrmacher^{1, 3}, J. Kneisel^{1, 2, 3}, R. Großmann^{1, 3}, M. Bunbury⁴

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany, ⁴James Cook University, Cairns, Australia

14:50 Short Poster Presentations

POSTER SESSION

■ Wednesday, March 15, 15:30

Poster Typochronological Studies on Younger and Late Neolithic Pottery in the western German Lower Mountain Range

Schwarck, N.^{1, 2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

Poster The pathogen landscape of the Neolithic and its influence on the human immune gene pool

M. Haller^{1, 2}, N. A. da Silva^{1, 2}, A. Nebel^{1, 2, 3}, B. Krause-Kyora^{1, 2, 3}

¹Longevity and Ancient DNA Research, Institute of Clinical Molecular Biology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

Poster Implementing a FAIR Repository and Data Integration System for CRC 1266

S. Strohm^{1, 2}

¹Department of Computer Science, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

Poster Natural Resources and settlement pattern in hilly district of Assam – An Ethnoarchaeological study

S. Sabnis^{1, 2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

Poster **Exploring plant food practices at a Late Bronze Age settlement in northern Germany**

M. Oelbütte^{1,2}, *W. Kirleis*^{2,3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

Poster **A matter of scales? Towards a comparability of transregional Iron Age transformations**

V. Alliata^{1,2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

Poster **Reliability of Ceramic Chronologies: Case Studies from Central European Rondel Sites Dated to the Fifth Millennium BC**

C. Dickie^{1,2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

Poster **Using seismic Full waveform inversion (FWI) for investigations of tells and burial mounds**

M. Zolchow^{1,2}, *D. Köhn*¹, *N. Pickartz*³, *E. Erkul*¹, *D. Wilken*^{1,2,4}, *A. Serbanescu*⁵, *S. Dreibröd*^{2,4,6}, *R. Hofmann*², *7*, *C. Lazar*⁵, *J. Müller*^{2,4,7}, *W. Rabbel*^{1,2,4}

¹Institute of Geosciences, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Regierungspräsidium Stuttgart, Landesamt für Denkmalpflege, Ludwigsburg, Germany, ⁴Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁵Research Institute of the University of Bucharest (ICUB), University of Bucharest, Bucharest, Romania, ⁶Institute for Ecosystem Research, Kiel University, Kiel, Germany, ⁷Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany

Poster **Human-Environmental interaction in the central-eastern Sicily uplands: looking at the settlement systems evolution of the Hyblean plateau and its economy from the Greek to the Roman Ages (eighth c. BCE-fifth c. CE)**

R. Brancato

Department of Humanities, University of Naples Federico II, Naples, Italy

Poster **Economy and Subsistence in the Younger and Late Neolithic of the Western German Lower Mountain Range**

R. Hoffmann^{1,2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

Poster **First steps towards open and transparent simulation tools: Reconstructing socio-environmental transformation processes in prehistoric and archaic societies using agent-based modelling**

G. Günther^{1, 2}

¹Department of Geography, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

Poster **Transforming Hellenistic Cityscapes: On the influence of social parameters on city planning and design**

J. Heil^{1, 2}

¹Classical Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

Poster **Neolithic transformation manifested in diseases? A study on two populations with different subsistence strategies from Northern Germany (3300-3100/2900 BCE)**

D. Moser^{1, 2}, *K. Fuchs*^{1, 2, 3}, *F. Klimscha*⁴, *D. Jantzen*⁵

¹Institute of Clinical Molecular Biology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁴Lower Saxony State Museum, Department for Research and Collections, Hannover, Germany, ⁵State Agency for Heritage Service of Mecklenburg-Vorpommern, Schwerin, Germany

Poster **Demography in Prehistoric Northern Europe: a computational perspective**

G. Bilotti^{1, 2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

Poster **We came for the lake - Late Glacial landscape reconstruction in Lieth Moor, dist. Pinneberg**

*S. Detjens*¹, *S. Grimm*^{1, 2}, *T. Wunderlich*^{2, 3, 4}, *B. V. Eriksen*^{1, 2, 4}

¹Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Institute for Geosciences - Applied Geophysics, Kiel University, Kiel, Germany, ⁴Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

Poster **Along the Spectra. An integrative poly-scalar approach towards the interaction between "farmers" and "foragers"**

J.-E. Schlicht^{1, 2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

Poster **The genetic landscape in Neolithic Germany**

*N. A. da Silva*¹, *B. Krause-Kyora*^{1,2,3}, *A. Nebel*^{1,3}, *S. Schade-Lindig*⁴, *J. Wahl*⁵, *C. Berszin*⁶, *D. Krausse*⁷, *M. Francken*⁷, *I. Görner*⁸, *K. Schierhold*⁹, *J. Pecht*¹⁰, *G. Grupe*¹¹, *A. Caliebe*¹², *J. Müller*^{2,3,13}, *S. Schreiber*¹⁴

¹Institute of Clinical Molecular Biology - Ancient DNA, Kiel University/University Hospital Schleswig Holstein, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany, ⁴hessenARCHÄOLOGIE, Landesamt für Denkmalpflege Hessen, Wiesbaden, Germany, ⁵Institute for Archaeological Sciences, Palaeoanthropology Working Group, University of Tübingen, Tübingen, Germany, ⁶Anthropologische Dienstleistungen, Konstanz, Germany, ⁷Landesamt für Denkmalpflege im Regierungspräsidium Stuttgart, Esslingen, Germany, ⁸Collection of Prehistory and Early History, Museum Kassel, Kassel, Germany, ⁹Historisches Seminar. Abteilung für Ur- und Frühgeschichtliche Archäologie, University of Münster, Münster, Germany, ¹⁰Institut für Archäologien, University of Innsbruck, Innsbruck, Germany, ¹¹Ludwig Maximilian University of Munich, Munich, Germany, ¹²Institute of Medical Informatics and Statistics, Kiel University, Kiel, Germany, ¹³Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ¹⁴Institute of Clinical Molecular Biology, Kiel University, Kiel, Germany

Poster **Mathematical Perception: Euclid's View of World**

L. Wirth^{1,2}

¹Institut für Klassische Altertumskunde, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

Session 16: Between over-exploitation and sustainability: Extraction of resources as a driver for societal change and inequality

Chair: P. Cembrzynski, T. Kerig, B. Majchczack

Tuesday, March 14, Room 208

09:00 Early neolithic raw material exploitation: Networks as cause and effect

J. Hilpert^{1, 2}, T. Kerig^{1, 2, 3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany

09:20 Landscapes of dependencies of Kukra Hill. The case study of changes and continuities of dependencies based on human interaction with the landscape and access to resources in the pre-contact period Caribbean coast of Nicaragua

D. Auzina

Bonn Center for Dependency and Slavery Studies, Bonn University, Bonn, Germany

09:40 Hard cheese for heavy metal workers: the integrated productive system of the Veneto-Trentini Plateaus during the Late Bronze Age

C. Bettineschi¹, L. Magnini², S. Pedersoli³, G. Azzalin³, A. De Guio⁴

¹Faculty of Philology and History, University of Augsburg, Augsburg, Germany, ²Department of History, Human Sciences and Education, University of Sassari, Bressanone, Italy, ³Department of History, Human Sciences and Education, University of Sassari, Sassari, Italy, ⁴Department of Cultural Heritage: Archaeology, History of Arts, Cinema and Music, University of Padova, Padova, Italy



10:00 Coffee break

10:30 Plant use and land management of Early Iron Age societies in the boreal zone of the mid-Kama region: first results

L. Shumilovskikh¹, V. Batalova¹, E. Orlova², M. Pereskokov², V. Mingalev³, P. Sannikov², F. Schlütz^{4, 5, 6}

¹Palynology and Climate Dynamics, Georg-August-University Göttingen, Göttingen, Germany, ²Perm State University, Perm, Russian Federation, ³Humanities, Higher School of Economics, Perm, Russian Federation, ⁴Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ⁵Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁶CRC 1266, Kiel University, Kiel, Germany

10:50 Climbing the ladder? Social dynamics of mining communities in medieval Central Europe

P. Cembrzyński^{1, 2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

11:10 Discussion

11:20 What about exotic species? Social significance of remains of strange and alien animals in the Baltic Sea region with special focus on Viking Age to High Medieval times (800 to 1300 CE)

U. Schmölcke^{1, 2, 3}

¹Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany

11:40 Medieval Silver Production and its Impact on the Environment and Settlement (Social) Structures

P. Hrubý

Department of Archaeology and Museology, Masaryk University, Brno, Czech Republic



12:00 Lunch break

13:30 Medieval peat quarrying for salt production in the coastal marshes of North Frisia (Germany): the disastrous implications of a large-scale landscape transformation

B. S. Majchczack^{1, 2}, *H. Hadler*³, *D. Wilken*^{1, 2, 4}, *S. Bäuml*^{4, 5}, *D. Bienen-Scholt*⁶, *R. Blankenfeldt*⁷, *B. Grimm*³, *S. Klooß*⁸, *A. Reijß*³, *W. Rabbel*^{2, 4, 5}

¹Institute of Geosciences, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³Institute of Geography, University of Mainz, Mainz, Germany, ⁴CRC 1266, Kiel University, Kiel, Germany, ⁵Applied Geophysics, Institute of Geosciences, Kiel University, Kiel, Germany, ⁶Municipality of Hallig Hooe, Hallig Hooe, Germany, ⁷Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ⁸Archäologisches Landesamt Schleswig-Holstein, Schleswig, Germany

13:50 Salt extraction as source for environmental and societal hazards - Examples from Central Europe

W. Dörfler^{1, 2, 3}

¹Palynological Laboratory, Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany

14:10 Discussion**14:20 Natural Resource Extraction, Sustainable Development, and Peace in Nigeria**

O. Okoi

Justice and Society Studies, University of St Thomas, St Paul, United States of America

14:40 Essential resources and social change in the southern Maya lowlands from the Classic period to the present: an ethnoarchaeological approach

P. Graf

Bonn Center for Dependency and Slavery Studies, Bonn University, Bonn, Germany

15:30 The Inequality Possibility Frontier and archaeological data. Applying and interpreting a new tool on examples from the Central and Southeast European prehistory

F. Wilkes^{1,2}, H. Skorna^{1,2}

¹Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ²Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany

15:50 Discussion

Session 17: Across Borders: Interdisciplinary Approaches to Bounded Space, Segregation, and Social Inequality in Past and Present

Chair: M. Furholt, T. Kerig, A. H. Khan, T. Schreiber

Monday, March 13, Room 208

15:30 **Exchange and Mobility at the India-Bangladesh Border – A Study of Malda**

R. Nandy

Centre for Regional Studies, University of Hyderabad, Hyderabad, India

15:50 **“The language border is the firing line!”. Framing linguistic inequality and threat by metaphors of war at the language border in the Flemish activist journals “De Taalgrens” and “De Taalgrenswacht” (1929 - 1940)**

K. van Bentum

Institute of German and Dutch Languages and Literatures, Free University of Berlin, Berlin, Germany

16:10 **Analysing past boundaries in a rural study area**

I. Herzog

Öffentlichkeitsarbeit / Fachdienste, LVR-Amt für Bodendenkmalpflege im Rheinland, Bonn, Germany

16:30 **Discussion**

16:40 **Communities in the middle (of nowhere): interdisciplinary research of the Neolithic occupation in South Bohemia**

V. Vondrovský¹, M. Ptáková², P. Šída³, J. Bumerl², J. Prach⁵, J. John⁶

¹Institute of Archaeology of the Czech Academy of Sciences, Prague, Czech Republic, ²Laboratory of Archaeobotany and Palaeoecology, University of South Bohemia, České Budějovice, Czech Republic, ³Institute of Archaeology of the Czech Academy of Sciences, Brno, Czech Republic, ⁴Philosophical Faculty, University in Hradec Králové, Hradec Králové, Czech Republic, ⁵Centre for Theoretical Study, Charles University, Prague, Czech Republic, ⁶Faculty of Arts, University of South Bohemia, České Budějovice, Czech Republic

17:00 **Catalysis on the Yenisei: Reaction interfaces in archaeolinguistics and archaeogenetics**

A. M. Kim^{1, 2}

¹Department of Anthropology, Harvard University, Cambridge, MA, United States of America,

²Department of Genetics, Harvard University, Boston, MA, United States of America

17:20 **Discussion**

Session 18: Prehistory of politics - politics of prehistory

Chair: M. Furholt, H. Piezonka, S. Schaefer-Di Maida, K. Szilágyi, M. Wunderlich

Tuesday, March 14, Room 208

16:00 Session Keynote: Decentralization as an Active Process, Not a Failure of Centralization: Evaluating the Politics of the Marpole-Late Period Transition in the Northwest Coast

B. Angelbeck

Faculty of Anthropology/ Faculty of Sociology, Douglas College, New Westminster, Canada

16:30 Discussion

16:40 Ancient Prophecies and Lost Empires. Religious and Political Ideas of Empire in Early Archaeology in North America

S. Grunwald

Klassische Archäologie, Institut für Altertumswissenschaften, Johannes Gutenberg University Mainz, Mainz, Germany

17:00 People with too much history: late capitalism, postmodernity, and politics in archaeology today

A. Ribeiro^{1,2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

Wednesday, March 15, Room 208

08:30 Overcoming controversial bias in the interpretation of Indigenous past

R. U. Onah

Department of Archaeology, Memorial University of Newfoundland, St. John's, Canada

08:50 Neolithic roundels as monuments and a tools of politics

L. Czerniak

Institute of Archaeology, University of Gdańsk, Gdańsk, Poland

09:10 Discussion

09:20 Matrilineal/Patrilineal: Diversities Within a Single Kinship Model

S. Cveček

Department for Prehistory and WANA Archaeology, Austrian Archaeological Institute, Vienna, Austria

10:00 The politics of local and transregional encounters in 3rd millennium Europe

M. Furholt^{1, 2, 3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany



10:00 Coffee break

10:30 Chiefs & Rebels? Politics of the Bronze Age in Northern Germany

S. Schaefer-Di Maida^{1, 2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

10:50 Human Mobility in the Landscape of Tehran Plain; From Proto-Elamite Union to Modern Nomadic Rulers

R. Yousefi Zoshk¹, S. Baghizadeh², H. Afshari³

¹Department of Archaeology, Islamic Azad University of Varamin-Pishva, Varamin, Iran, Islamic Republic of, ²Department of Archaeology, Tarbiat Modares University, Tehran, Iran, Islamic Republic of, ³Department of Archaeology, University of Tehran, Tehran, Iran, Islamic Republic of

11:10 Discussion

11:20 Altai past and present: ethnography of an excavation

C. Conte

Institute for Asian and African Studies, Humboldt University of Berlin, Berlin, Germany

11:40 Politics of Commemoration in Viking Age Scandinavia

J. Lund

Department of Archaeology, Conservation and History, University of Oslo, Oslo, Norway

Session 20: De-escalation Strategies in Past Societies

Chair: A.-T. Andersen, J. Kneisel, A. K. Loy, T. Mörtz, O. Nakoinz, J. Schneeweiß

■ **Wednesday, March 15, Room 208**

13:30 **Session Keynote: Cultures of Violence. The Role of Weapon design and Production in Prehistory**

F. Klimscha

Archäologie, Landesmuseum Hannover, Hannover, Germany

14:00 **Conflict and De-Escalation – Theories, hypothesis, and assumptions**

O. Nakoinz^{1, 2, 3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany

14:20 **Sacrifices against the state. Weapon deposition as an inner-societal de-escalation strategy**

T. Mörtz

Vor- und Frühgeschichtliche Archäologie, University of Hamburg, Hamburg, Germany

14:40 **Make peace to fight another day – insights on the function of Bronze Age weapon depositions**

V. Gentile

Faculty of Archaeology, Leiden University, Leiden, The Netherlands

■ **Thursday, March 16, Room 208**

08:30 **„Dann schlossen sie sich zusammen und schienen zu vergessen, dass sie jemals in Opposition gestanden hatten.“ – Beispiele aus kulturanthropologischen Berichten für De-Eskalierung durch ritualisierte und kanalisierende Gewalthandlungen**

A. Reymann

Naturhistorische Sammlungen, Museum Wiesbaden - Hessisches Landesmuseum für Kunst und Natur, Wiesbaden, Germany

08:50 Boundaries in landscape as a de-escalation strategy?

J. Kneise^{1,2,3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany

09:10 Discussion**09:20 Creating Defenses as an Offensive Strategy - Thoughts on Conflict Resolution in Bronze Age Europe**

L. Linde

Institut für Archäologische Wissenschaften, Abt. III: Vor- und Frühgeschichte, Goethe University Frankfurt, Frankfurt, Germany

09:40 Of White Elephants and Objects of Desire – A Critical Exploration of Diplomacy with Archaeo-Historic Sources

A.-T. Andersen^{1,2}

¹Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ²Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany

Session 22: On course to drowned landscapes of the North Sea – cultural aspects, preservation potential and geoscientific challenges

Chair: S. Detjens, A. Lohrberg, W. Mills

Tuesday, March 14, Room 204

15:30 Session Keynote: Not drowning but waving! Doggerland and the Lost Frontiers Project

V. Gaffney

Landscape Archaeology, School of Archaeological Sciences, Bradford, United Kingdom

15:50 Re-collecting earth. Seabeds as archives of the world

A. Bergsdóttir^{1, 2}

¹Faculty of Sociology, Anthropology, and Folkloristics, University of Iceland, Reykjavik, Iceland,

²Research Centre on Ocean, Climate, and Society, University of Copenhagen, Copenhagen, Denmark

16:10 Integrating Direct Push techniques in geomorphological and geoarchaeological research – new approaches towards comprehensive shallow subsurface characterization

P. Fischer¹, H. Hadler¹, L. Obrocki¹, D. Wilken^{2, 3}, T. Willershäuser¹, T. Wunderlich², A. Vött¹

¹Institute of Geography, University of Mainz, Mainz, Germany, ²Institute for Geosciences - Applied Geophysics, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany, ⁴Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

16:30 Discussion

16:40 Drainage and submergence of the postglacial landscape in the southeastern North Sea

D. A. Hepp

Lower Saxony Institute for Historical Coastal Research, Wilhelmshaven, Germany

17:00 The unknown landscapes of Doggerland east of the Elbe Paleo Valley

K. J. Andresen, N. K. Andersen, A. K. Baltz

Department of Geoscience/ SeisLab Aarhus, Aarhus University, Aarhus, Denmark

17:20 Discussion

■ Wednesday, March 15, Room 204

08:30 **Let's go to the red mountain – Preliminary results of and future plans for Late Pleistocene - Early Holocene palaeoland-scape reconstruction off the Heligoland coast**

S. Detjens¹, A. Lohrberg², W. Rabbe^{3,4,5}, S. Krastel², B. V. Eriksen^{1,4,5}

¹Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ²Marine Geophysics and Hydroacoustics, Institute for Geosciences, Kiel University, Kiel, Germany, ³Applied Geophysics, Institute of Geosciences, Kiel University, Kiel, Germany, ⁴Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁵CRC 1266, Kiel University, Kiel, Germany

08:50 **Fringing Doggerland...the terrestrial Late Glacial fluvial records to the Doggerland catchments**

W. Mills

Centre for Baltic and Scandinavian Archaeology, Foundation for the Schleswig Holstein State Museums, Schleswig, Germany

09:10 Discussion

09:20 **Drowned Landscapes in the North American Great Lakes: A case study from across the Atlantic**

A. Lemke

Sociology and Anthropology, University of Texas at Arlington, Arlington, United States of America

09:40 **Blinkerwall: A Late Paleolithic - Mesolithic archeological site in the southwestern Baltic Sea?**

J. Geersen¹, J. Schneider von Deimling¹, P. Held¹, A. Lohrberg¹, S. Krastel¹, M. Bradtmöller², H. Lübke^{3,4}, J. Auer⁵, P. Feldens⁶, D. Heuskin⁷, M. Berger⁷, D. Brandt⁷

¹Institute of Geosciences, Kiel University, Kiel, Germany, ²Heinrich Schliemann-Institute of Ancient Studies, Rostock University, Rostock, Germany, ³Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ⁴CRC 1266, Kiel University, Kiel, Germany, ⁵Landesamt für Kultur und Denkmalpflege Mecklenburg-Vorpommern, Schwerin, Germany, ⁶Leibniz Institute for Baltic Sea Research Warnemünde (IOW), Rostock, Germany, ⁷Institute for the Protection of Maritime Infrastructures, German Aerospace Center (DLR), Bremerhaven, Germany

10:00 **Coffee break**

10:30 Resurfacing Doggerland: from finds to narratives

H. Peeters¹, L. Amkreutz^{2, 3}

¹Groningen Institute of Archaeology, Groningen, The Netherlands, ²National Museum of Antiquities, Leiden, The Netherlands, ³Faculty of Archaeology, Leiden University, Leiden, The Netherlands

10:50 Looking Back, Moving Forward: Going beyond the Lost Frontier's Project

S. Fitch¹, V. Gaffney¹, R. Bates², R. Harding¹, A. Fraser¹

¹School of Archaeological and Forensic Sciences, University of Bradford, Bradford, United Kingdom,

²School of Earth and Environmental Science, University of St. Andrews, St. Andrews, United Kingdom

Session 23: Through the flames and into the grave – multidisciplinary research into past and present cremation practices and burials

Chair: M. Augstein, M. Kohle, H. Rose, S. Schaefer-Di Maida

Tuesday, March 14, Room 209

15:30 Introduction

15:40 Session Keynote: How to get rid of a body: Cremation and other body-related practices

A. Gramsch

Römisch-Germanische Kommission, German Archaeological Institute, Frankfurt, Germany

16:10 Beyond ashes: reconstruction of the funerary rite of Tumulus TU-1 of the cemetery of Vall de la Clamor (Catalonia)

M. Bouso¹, A. Moya², J. Carbonell³, B. Agustí⁴

¹Department of History, Universitat de Lleida, Lleida, Spain, ²Universitat de Lleida, Lleida, Spain,

³Universitat de Barcelona, Barcelona, Spain, ⁴INSITU, Begur, Spain

16:30 Discussion

16:40 The necropolis of Borgo Panigale (BO) between archaeology and anthropology: new data from child burials

O. Pulcrano¹, C. Cavazzuti², P. Von Eles³

¹Scuola Superiore Meridionale, Naples, Italy, ²Disci, University of Bologna, Bologna, Italy, ³Già Soprintendenza Archeologica dell'Emilia Romagna, Bologna, Italy

17:00 Cremation as a message in the times of urnfield cultures

T. Galak

Institute of Archaeology, University of Wrocław, Wrocław, Poland

17:20 Discussion

■ Tuesday, March 14, Room 209

08:30 **The dying of the light. The devaluation of cremation in Roman Imperial Pisidia (SW Asia Minor).**

B. Beaujean¹, S. Cleymans²

¹Research Unit Archaeology, Art History, Musicology, KU Leuven, Leuven, Belgium, ²Gallo Roman Museum Tongeren, Tongeren, Belgium

08:50 **The Burial Mounds of Unterradlberg: a multidisciplinary approach to shed light on Middle Bronze Age cremations**

H. Skerjanz

Austrian Archaeological Institute, Austrian Academy of Sciences, Vienna, Austria

09:10 **Discussion**

09:20 **Burnt, Buried, Recovered – Interdisciplinary Investigations of a Late Bronze Age Grave in Gränichen-Lochgasse (AG)**

D. Brönnimann^{1, 2, 3}, S. Joray², Ö. Akeret¹, C. Alder¹, S. Deschler-Erb¹, T. Doppler⁴, M. Kühn¹, C. Maise⁴, P. Rentzel¹, B. Röder²

¹Department of Environmental Sciences/ Integrative Prehistory and Archeological Science (IPAS), University of Basel, Basel, Switzerland, ²Department of Ancient Civilizations - European Archaeology, University of Basel, Basel, Switzerland, ³Archäologische Bodenforschung Basel-Stadt, Basel, Switzerland, ⁴Kantonsarchäologie Aargau, Brugg, Switzerland

09:40 **Rituals matter and rituals leave matter**

M. Fritzl¹, M. Konrad²

¹Austrian Archaeological Institute, Austrian Academy of Sciences, Vienna, Austria, ²University of Vienna, Vienna, Austria



10:00 **Coffee break**

10:30 **Multi-disciplinary study of archaeological human cremated bones from Belgium to reconstruct funerary practices, palaeodiet, and palaeomobility**

C. Snoeck¹, G. Capuzzo², S. Dalle^{1, 3}, M. Hlad^{1, 2}, C. Sabaux^{2, 3}, K. Salesse⁴, A. Sengeløv^{2, 3}, E. Stamatakis^{1, 2}, B. Veselka¹, M. Boudin⁵, M. Vercauteren², G. De Mulder³

¹Chemistry & Archaeology, Free University of Brussels, Brussels, Belgium, ²Anthropology, Free University of Brussels, Brussels, Belgium, ³Archaeology, Ghent University, Ghent, Belgium, ⁴Anthropology, Masaryk University, Brno, Czech Republic, ⁵Radiocarbon Dating Lab, Royal Institute for Cultural Heritage, Brussels, Belgium

10:50 Another view of mortuary practice based on Mesolithic graves*L. Larsson*

Department of Archaeology and Ancient History, Institute of Archaeology, Lund University, Lund, Sweden

11:10 Discussion**11:20 Research potential of cremains within a Bayesian chronological framework***H. A. Rose*

Centre for Baltic and Scandinavian Archaeology, Schleswig-Holstein State Museums Foundation, Schleswig, Germany

11:40 Discussion**POSTER SESSION****Wednesday, March 15, 15:30****Poster Preliminary virtual examination of Middle-Late Bronze Age non-excavated urns from Northern Italy**

L. M. Scalise¹, M. P. Morigi^{2,3}, C. Cavazzuti^{4,5}, R. Brancaccio^{2,3}, M. Seracini^{2,3}, S. Stoddart¹, S. Benazzi⁶, E. Pomeroy¹

¹Department of Archaeology, University of Cambridge, Cambridge, United Kingdom, ²Department of Physics and Astronomy "Augusto Righi", University of Bologna, Bologna, Italy, ³National Institute of Nuclear Physics (INFN) Bologna Division, Bologna, Italy, ⁴Department of History and Cultures, University of Bologna, Bologna, Italy, ⁵Department of Archaeology, Durham University, Durham, United Kingdom, ⁶Department of Cultural Heritage, University of Bologna, Ravenna, Italy

Session 24: Mesolithic–Neolithic transformations in Baltic Sea Region: The bioarchaeological perspective

Chair: *B. V. Eriksen, A. Fischer, K. Fuchs, B. Krause-Kyora, J. Meadows, M. Törv, H. Lübke*

■ **Thursday, March 16, Room 204**

13:30 **Introduction**

13:40 **Session Keynote: Looking for Humans. On the urgency of recentering the human experience of the transition to the Neolithic in the era of Big Data**

L. Nilsson Stutz

Linnaeus University, Växjö, Sweden

14:10 **Discussion**

14:20 **Genetic and dietary change at the Mesolithic-Neolithic transition in Denmark**

A. Fischer¹, M. Allentoft^{2,3}, K. G. Sjögren⁴, K. Kristiansen⁵, E. Willerslev²

¹Sealand Archaeology, Kalundborg, Denmark, ²Globe Institute, Copenhagen University, Copenhagen, Denmark, ³Trace 35 and Environmental DNA Laboratory, School of Molecular and Life Sciences, Curtin University, Perth, Australia, ⁴University of Gotenburg, Gotenburg, Sweden, ⁵Gottenborg University, Gottenborg, Sweden

14:40 **Demographic processes in the Eastern Baltic during the Mesolithic-Neolithic transition: an ancient DNA perspective**

L. Saag^{1,2}, L. Varul³, S. V. Vasilyev⁴, M. Törv², C. L. Scheib^{2,5}, E. Willerslev^{5,6}, T. Kivisild^{2,7}, K. Tambets², A. Kriiska², M. Metspalu²

¹University College London, London, United Kingdom, ²University of Tartu, Tartu, Estonia, ³Tallinn University, Tallinn, Estonia, ⁴Russian Academy of Sciences, Moscow, Russian Federation, ⁵University of Cambridge, Cambridge, United Kingdom, ⁶University of Copenhagen, Copenhagen, Denmark, ⁷KU Leuven, Leuven, Belgium



15:00 **Coffee break**

15:30 **Invited Speaker: Chasing ghosts: ancient DNA extracted from chewed tar**

T. Z. T. Jensen

University of Copenhagen, Copenhagen, Denmark

16:00 Changes in hunting strategy? Mesolithic and Neolithic hunters - similarities and differences in their hunting behaviour

U. Schmölcke^{1, 2, 3}

¹Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany

16:20 Eelgrass: Ertebølle groups targeted a productive and isotopically distinct ecological niche

J. Meadows^{1, 2, 3}, *A. Fischer*⁴

¹Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany, ⁴Sealand Archaeology, Kalundborg, Denmark

16:40 Fencing the Sea, seeing the fence – aquatic resource exploitation on Lolland around 4000 cal BC

D. Groß

Museum Lolland-Falster, Nykøbing F, Denmark

17:00 Diverse Stable Isotope Approaches to Freshwater Reservoir Effect Corrections at Zvejnieki

*C. Hyland*¹, *R. Schulting*¹, *A. Weber*², *A. Styring*¹

¹School of Archaeology, University of Oxford, Oxford, United Kingdom, ²Anthropology, University of Alberta, Alberta, Canada

17:20 Discussion

POSTER SESSION

Wednesday, March 15, 15:30

Poster Exploring subsistence practices and dietary adaptations of Early Holocene hunter-gatherers in southern Scandinavia using compound specific isotope analysis of individual amino acids to distinguish freshwater and marine diets

*M. Scott*¹, *A. Boethius*², *R. Macdonald*³, *M. Richards*³, *A. Styring*¹

¹School of Archaeology, University of Oxford, Oxford, United Kingdom, ²Department of Archaeology and Ancient History, Lund University, Lund, Sweden, ³Department of Archaeology, Simon Fraser University, Burnaby, Canada

Session 25 & 32: Comparing Scales and Transformation in Population Dynamics: Old and New Challenges

Chair: *G. Bilotti, M. Brunner, A. Diachenko, L. Hillmann, T. Kerig, S. Ketelsen, J. Kim, J. Laabs, L. Magnini, O. Nakoinz, E. Parkinson, I. Schmidt, S. Stoddart, C. Zeviani*

■ **Monday, March 13, Room 204**

15:30 **Session Keynote: Bayesian Hierarchical Models as a tool for prehistoric population estimates**

M. Hinz

Prehistoric Archaeology, Institute for Archaeological Sciences, University of Bern, Bern, Switzerland

16:00 **How come, how long? Past human ecodynamics in the Arctic in relation to Holocene climate variability**

M. Brunner^{1,2}

¹Institute for Ecosystem Research, Kiel University, Kiel, Germany, ²Oeschger Centre for Climate Change Research, University of Bern, Bern, Switzerland

16:20 **A multi-proxy approach on demographic and socio-economic transformations in the Northern European Neolithic and Bronze Age: Where to go from here?**

J. Laabs^{1,2}, G. Bilotti^{1,2}, J. P. Brozio^{1,2}, M. Bunbury³, I. Feeser^{1,2,4}, J. Winther Johannsen⁵, T. Kerig^{1,2,4}, J. Kneisel^{1,2,4}, J. Marzian⁶, J. Müller^{1,2,4}, A. Ribeiro^{1,2}, S. Schaefer-Di Maida^{1,2}, S. Schultrich^{1,2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³ARC Centre of Excellence for Australian Biodiversity and Heritage, Cairns, Australia, ⁴Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁵Archeology and Heritage Studies, School of Culture and Society, Aarhus, Denmark, ⁶Kiel Institute for the World Economy, Kiel University, Kiel, Germany

16:40 **Discussion**

16:50 **Hypotheses on Climate and Demographic Dynamics in Neolithic and Early Bronze Age Central Europe**

R. Großmann^{1,2,3}, M. Weinelt^{1,2,3}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

17:10 Prehistoric settlement patterns and population dynamics in Central Europe from the perspective of social transformations

P. Tkáč^{1,2}

¹Department of Archaeology and Museology, Masaryk University, Brno, Czech Republic, ²Department of Vegetation Ecology, Institute of Botany, Czech Academy of Sciences, Brno, Czech Republic

Monday, March 13, Room 204

08:30 Scale-dependent link between population dynamics and climate in Holocene Europe

K. Wirtz¹, N. Antunes², J. Laabs^{3,4}, A. Diachenko⁵, G. Lohmann⁶, C. Lemmen¹, D. Gronenborn⁷

¹Ecosystem Modeling, Helmholtz-Zentrum HEREON, Geesthacht, Germany, ²Leibniz Research Institute for Archaeology, Römisch-Germanisches Zentralmuseum, Mainz, Germany, ³Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ⁴CRC 1266, Kiel University, Kiel, Germany, ⁵Institute of Archaeology, Kyiv, Ukraine, ⁶AWI Helmholtz Centre for Polar and Marine Research, Bremerhaven, Germany, ⁷Leibniz Research Institute for Archaeology, Mainz, Germany

08:50 Migrations from South Caucasus to South of East Europe in beginning of Holocene

V. Manko¹, G. Chkhatrashvili²

¹Archaeology of Crimea and Northern Black Sea basin, Institute of Archaeology, Archaeology of Crimea and Northern Black Sea basinThe National Academy of Sciences of Ukraine, Kyiv, Ukraine, ²Stone Agem, Ajara Museum, Batumi, Georgia

09:10 Discussion

09:20 Neolithic in the Mountains: a multi-proxy survey of old and new data on early sedentism in the Zagros Mountains, south-western Iran (HighStepLands)

D. Moscone¹, B. Ögüt^{1,2}, A. Azadi³, M. Zarekhalili¹, N. Dopp¹, A. Ricci^{1,4}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Orient Department, German Archaeological Institute, Berlin, Germany, ³Iranian Research Institute of Cultural Heritage and Tourism, Tehran, Iran, Islamic Republic of, ⁴Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

09:40 Population proxies for Ireland and Britain before AD1000

R. McLaughlin

Maynooth University, Maynooth, Ireland

 **10:00 Coffee break****10:30 Theorizing demographic (de)agglomeration: The case of Heuneburg***J. Kim*

Archaeology, University of Cambridge, Cambridge, United Kingdom

10:50 Population dynamics during the Second Iron Age: a case study from the Paris region*C. Quatrelivre*

UMR 8546 Archéologie et philologie d'Orient et d'Occident, PSL Université - Ecole normale supérieure, Paris, France

11:10 Discussion**11:20 Long-term dynamics of demography in central Italy 1200 BC – 1200 AD***C. Zeviani, S. Stoddart*

Archaeology, University of Cambridge, Cambridge, United Kingdom

11:40 Settlement dynamics and demography in Verona plain (Western Veneto) during the First Iron Age*A. Giunto, D. Vicenzutto*

Department of Cultural Heritage, University of Padova, Padova, Italy

 **12:00 Lunch break****13:30 Simulating the predictabilities and uncertainties of scale-dependent social complexity***A. Diachenko¹, D. Gronenborn^{2,3}*¹Institute of Archaeology, National Academy of Sciences of Ukraine, Kyiv, Ukraine, ²Römisch-Germanisches Zentralmuseum, Mainz, Germany, ³University of Mainz, Mainz, Germany**13:50 Archaeogenomic pilot research of Kamenice, a prehistoric Albanian tumulus (1600-500 BCE)***X. Jia^{1,2,3}, E. Skourtanioti^{1,2}, L. Bejko⁴, I. Pojani⁴, H. Ringbauer^{1,2}, J. Krause^{1,2}, P. W. Stockhammer^{1,2,3}*¹Max Planck Harvard Research Center for the Archaeoscience of the Ancient Mediterranean, Leipzig, Germany,²Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany, ³Ludwig Maximilian University,Munich, Germany, ⁴Department of Archaeology and Heritage Studies, University of Tirana, Tirana, Albania

14:10 Discussion**14:30 Developing A New Incremental Isotopic Methodology For Human Dental Enamel to Track Childhood Mobility**

J. I. Griffith^{1, 2}, H. F. James^{1, 2}, C. Cheung^{1, 2}, B. Veselka^{1, 2}, H.-Y. Tran³, H. Gregoir^{3, 4}, C. Snoeck^{1, 2}

¹Analytical, Environmental & Geo-Chemistry Research Unit, Free University of Brussels, Brussels, Belgium, ²The Maritime Cultures Research Institute (MARI), Free University of Brussels, Brussels, Belgium, ³Faculty of Medicine, Free University of Brussels, Brussels, Belgium, ⁴Belgian Disaster Victim Identification (DVI) Team, Brussels, Belgium

Session 27: Out of context in the Baltic Sea area: people, artefacts and material cultures from the Postglacial times up to the 1st millennium cal BC

Chair: M. Blank, A. Macane, K. Nordqvist

■ Friday, March 17, Room 208

08:30 Session Keynote: Tooth beads, a decorated mattock-head and amber, presentations based on the theme of session 27

L. Larsson

Department of Archaeology and Ancient History, Institute of Archaeology, Lund University, Lund, Sweden

09:00 Out of context at Zvejnieki?

A. Macāne^{1, 2}, *K. Nordqvist*¹

¹Department of Cultures, University of Helsinki, Helsinki, Finland, ²Institute of Latvian History, University of Latvia, Riga, Latvia

09:20 Exotic within the exotic: Fossil finds from early-4th millennium BC fisher-hunter-gatherer contexts in Finland

M. Ahola

Department of history, culture and communications, University of Oulu, Oulu, Finland

09:40 Some thoughts on the “barbaric imitations” of Corded Ware battle axes of north-east Europe

K. Nordqvist

Archaeology, University of Helsinki, Helsinki, Finland



10:00 Coffee break

10:30 Strange pots in a pit: Laukskola Late Bronze Age pottery in a new light

V. Visocka

Department of History and Archaeology, University of Latvia Faculty of History and Philosophy, Riga, Latvia

10:50 From Coast to Coast - Evidence for Baltic soldiers in the Classical period Mediterranean

A. Mittnik^{1, 2, 3}, F. Mollo⁴, M. Lucci⁵, A. Nava⁶, A. Coppa^{2, 6, 7}, L. J. Reitsema⁸, B. Kyle⁹, D. Caramelli¹⁰, R. Pinhasi¹¹, D. Reich^{2, 3, 12, 13}

¹Archaeogenetics, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany, ²Department of Genetics, Harvard Medical School, Boston, MA, United States of America, ³Department of Human Evolutionary Biology, Harvard University, Cambridge, MA, United States of America, ⁴Department of Ancient and Modern Civilizations, University of Messina, Messina, Italy, ⁵Department of Environmental Biology, Sapienza University of Rome, Rome, Italy, ⁶Department of History, Anthropology, Religions, Arts, Entertainment, Sapienza University of Rome, Rome, Italy, ⁷Department of Evolutionary Anthropology, University of Vienna, Vienna, Austria, ⁸Department of Anthropology, University of Georgia, Athens, GA, United States of America, ⁹Department of Anthropology, University of Northern Colorado, Greeley, CO, United States of America, ¹⁰Department of Biology, University of Florence, Florence, Italy, ¹¹Human Evolution and Archaeological Sciences, University of Vienna, Vienna, Austria, ¹²Howard Hughes Medical Institute, Boston, MA, United States of America, ¹³Broad Institute of MIT and Harvard, Cambridge, MA, United States of America

Session 29: Macro-scale patterns in European prehistory 6000-1000 BCE

Chair: *J. Bulatović, E. Canteri, R. Fyfe, K. Kjær, J. Kolář, K. Kristiansen, A. Ruter, N. Schjerven, S. Scott Reiter, K.-G. Sjørgen, C. Speciale, R. Staniuk, J. Woodbridge*

■ **Monday, March 13, Room 105**

15:30 **Introduction**

15:40 **Session Keynote: Dairying, diseases and the evolution of lactase persistence in Europe**

M. G. Thomas

Research Department of Genetics, Evolution and Environment, University College London, London, United Kingdom

16:10 **Big Interdisciplinary Archaeological Database (BIAD)**

A. Timpson

Genetics, Evolution and Environment, University College London, London, United Kingdom

16:30 **Discussion**

16:40 **Archaeobotany and zooarchaeology in COREX project: methods and perspectives**

J. Bulatović, C. Speciale, N. Ryabogina

Historical Studies, University of Gothenburg, Gothenburg, Sweden

17:00 **Patterns in European prehistory from the perspective of 14C dates**

J. Kolář¹, A. Timpson², S. Shennan¹

¹Institute of Archaeology, University College London, London, United Kingdom, ²Centre for Life's Origins and Evolution, University College London, London, United Kingdom

17:20 **Discussion**

■ Tuesday, March 14, Room 105

08:30 Reflections on and of individual mobility/ities across the large scale: COREX and the contribution of strontium isotopes

S. S. Reiter, K. M. Frei

Environmental Archaeology and Materials Science, National Museum of Denmark, Brede (Kgs. Lyngby), Denmark

08:50 From discrete to continuous: a long-term perspective on body arrangement in European burials (6000-1000 BCE)

R. Staniuk¹, A. Timpson², P. Schauer³

¹Institute of Archaeology, University College London, London, United Kingdom, ²Genetics, Evolution & Environment, University College London, London, United Kingdom, ³Department of Archaeology, University of York, York, United Kingdom

09:10 Discussion

09:20 Spatiotemporal inference methods at the intersection of genomics and archaeology

F. Racimo¹, M. Petr¹, B. Haller², P. Ralph³, K. Kristiansen^{1,4}, J. Woodbridge⁵, R. Fyfe⁵, E. Canteri¹

¹Globe Institute, University of Copenhagen, Copenhagen, Denmark, ²Department of Computational Biology, Cornell University, Ithaca, United States of America, ³Department of Mathematics, University of Oregon, Eugene, United States of America, ⁴Department of Historical Studies, University of Gothenburg, Gothenburg, Sweden, ⁵School of Geography, Earth and Environmental Sciences, University of Plymouth, Plymouth, United Kingdom

09:40 Testing cultural transmission hypotheses at the macroscale

S. Shennan

Institute of Archaeology, University College London, London, United Kingdom



10:00 Coffee break

10:30 How much do cultural transitions influence land cover change in Europe?

R. Fyfe¹, M. A. Serge², F. Mazier², J. Woodbridge¹, S. Shennan³, J. Kolář³, R. Staniuk³

¹School of Geography, Earth and Environmental Science, University of Plymouth, Plymouth, United Kingdom, ²Jean Jaurès University, Toulouse, France, ³University College London, London, United Kingdom

10:50 Exploring land-use impacts on plant and insect diversity through synthesis of palaeoecological datasets from across the British Isles

J. Woodbridge¹, R. Fyfe¹, A. De Vareilles², D. Smith³, R. Pelling²

¹School of Geography, Earth and Environmental Sciences, University of Plymouth, Plymouth, United Kingdom, ²Historic England, Portsmouth, United Kingdom, ³University of Birmingham, Birmingham, United Kingdom

11:10 Discussion

11:20 Five challenges for a new Archaeogenetic Paradigm

K. Kristiansen

Department of Historical Studies, University of Gothenburg, Gothenburg, Sweden

Session 31: Innovations in the Urnfield Culture

Chair: D. Knoll, L. Linde, C. Pankau

Thursday, March 16, Room 209

13:30 Introduction

13:40 Session Keynote: Iron and the Iron Age

C. Pare

University of Mainz, Mainz, Germany

14:10 A major shift in Late Bronze Age metalwork production around 900 BC

L. Dumont^{1,2}, S. Wirth²

¹Department of Archaeology, Ghent University, Ghent, Belgium, ²UMR 6298 ARTEHIS, University of Burgundy, Dijon, France

14:30 Apotheosis; A dynamic interpretation of Urnfield waterbird symbolism.

L. Nebelsick

Archaeology, Cardinal Stefan Wyszyński University in Warsaw, Warszawa, Poland

14:50 Discussion



15:00 Coffee break

15:30 The Technology, Use, and Deposition of Spearheads during the Late Bronze Age in Transdanubia

J. G. Tarbay

Department of Archaeology, Hungarian National Museum, National Institute of Archaeology, Budapest, Hungary

15:50 Production Patterns in LBA Hoarded Metals Along the Save and Bosna River?

N. Mittermair¹, M. Gavranović¹, M. Mehoffer^{2,3}

¹Austrian Archaeological Institute, Vienna, Austria, ²Vienna Institute for Archaeological Science, University of Vienna, Vienna, Austria, ³Human Evolution & Archaeological Sciences, University of Vienna, Vienna, Austria

16:10 Discussion**16:20 The begin of supraregional trade with querns of Mayen lava in the Urnfield period**

S. Wenzel

KB VAT, Römisch-Germanisches Zentralmuseum, Mayen, Germany

16:40 Stillfried an der March – old finds and new methods. An interdisciplinary approach and results of a long-term investigations

M. Griebel, M. Gavranovic

Austrian Archaeological Institute, Austrian Academy of Sciences, Vienna, Austria

Session 34: Barrows as records of human activities

Chair: P. Makarowicz, M. Szmyt, P. Włodarczak

■ **Wednesday, March 15, Room 209**

13:30 Session Keynote: Ancient burial mounds as a symbolic system

S. Ivanova

Archeology of the Crimea and the North-West Pontic, Institute of Archaeology, National Academy of Sciences of Ukraine, Kyiv, Ukraine

14:00 Discussion

14:10 Kurgan phenomenon of the Southern Caucasus: first results of an interdisciplinary survey along the Kurekçay Valley (Goranboy Province, western Azerbaijan)

A. Ricci^{1,2}, B. Jalilov³, E. Erkul⁴, S. Fiori^{1,2}, J. Kneisel^{1,2,5}, N. Laneri⁶, S. L. Fischer⁴, D. Wilken^{2,4,5}, W. Rabbel^{2,4,5}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³Institute of Archaeology, Ethnography and Anthropology, National Academy of Science of Azerbaijan, Baku, Azerbaijan, ⁴Applied Geophysics, Institute for Geosciences, Kiel University, Kiel, Germany, ⁵CRC 1266, Kiel University, Kiel, Germany, ⁶Dipartimento di Scienze Umanistiche, Università di Catania, Catania, Italy

14:30 Usatovo and Mayaki: Who was buried in the late Chalcolithic burials of the North Pontic?

M. Shatilo^{1,2}, R. Hofmann^{1,2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

14:50 Discussion

■ **Thursday, March 16, Room 209**

08:30 Early kurganisation of Central Europe

P. Włodarczak

Centre for Archaeology of Hills and Uplands, Instytut Archeologii i Etnologii PAN, Kraków, Poland

08:50 Earth mounds in Semberija – ritual places of Copper and Bronze Age at the junction between the Pannonian plains and the Balkans

M. Gavranovic¹, S. Antic², L. Waltenberger¹, I. Petschko¹

¹Austrian Archaeological Institute, Austrian Academy of Sciences, Vienna, Austria, ²Museum of Semberija, Bijeljina, Bosnia and Herzegovina

09:10 Discussion**09:20 Easy to loot. Burial mounds and robbers: case of Łęki Małe barrow cemetery***J. Czebreszuk¹, M. Szmyt¹, J. Müller^{2,3,4}*

¹Faculty of Archaeology, Adam Mickiewicz University, Poznań, Poland, ²Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany, ⁴Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

09:40 Funerary rituals and under-mound architecture in the Middle Bronze Age barrows of the Upper Dniester Basin*J. Romaniszyn¹, V. Rud², J. Niebieszczański¹, P. Makarowicz¹*

¹Faculty of Archaeology, Adam Mickiewicz University, Poznań, Poland, ²Institute of Archaeology, Ukrainian National Academy Of Sciences, Kiiv, Ukraine

**10:00 Coffee break****10:30 The kurgans of the Alazani Valley in Eastern Georgia: investigating the pattern of distribution through a landscape archaeological study***S. Fiori^{1,2}, K. Hopper³, E. Rova⁴*

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³Department of Archaeology, Durham University, Durham, United Kingdom, ⁴Department of Humanities, Ca' Foscari University, Venice, Italy

10:50 Illuminated Barrow - an unusual Bronze Age mound construction*J. Kneisel^{1,2,3}*

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany

11:10 Discussion**11:20 Go north! Barrows of the 1st millennium BC in the forest-steppe on the Southern Bug, Ukraine***M. Szmyt¹, V. Rud², O. Shelekhan², P. Włodarczak³, D. Żurkiewicz¹*

¹Faculty of Archaeology, Adam Mickiewicz University, Poznań, Poland, ²Institute of Archaeology, National Academy of Sciences of Ukraine, Kyiv, Ukraine, ³Institute of Archaeology and Ethnology, Polish Academy of Sciences, Centre for Mountains and Uplands Archaeology, Kraków, Poland

Session 35: Cultivation under uncertainty - the interplay of social and ecological factors in prehistoric and ancient agriculture

Chair: A. Hafner, M. Hostettler, E. Weiberg

Wednesday, March 15, Room 105

08:30 Session Keynote: Farming and early urbanism in Europe: the interplay of sociality, ecology and uncertainty

A. Bogaard

School of Archaeology, University of Oxford, Oxford, United Kingdom

09:00 Land use expansion in Late Bronze Age Greece – a success story?

E. Weiberg¹, M. Finné^{1, 2}

¹Department of Archaeology and Ancient History, Uppsala University, Uppsala, Sweden, ²Department of Human Geography, Uppsala University, Uppsala, Sweden

09:20 Drought and Subsistence Practices: Disentangling possible Adaptations during the 3rd and 2nd Millennium BCE in southern Iberia

J. Schirrmacher^{1, 2}, N. J. Almeida³, H.-P. Stika⁴, M. Weinelt^{1, 2, 5}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³University of Lisbon, Lisbon, Portugal, ⁴University of Hohenheim, Hohenheim, Germany, ⁵Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

09:40 Exploring changes in land use and human impact in the prehistoric Southern Balkans and Northern Greece

M. Hostettler^{1, 2}

¹Institute of Archaeological Sciences, University of Bern, Bern, Switzerland, ²Institute of Archaeology and Ancient History, Uppsala University, Uppsala, Sweden



10:00 Coffee break

10:30 Climate and Settlement in Bronze Age Northern Switzerland

C. Maise

Kantonsarchäologie Aargau, Brugg AG, Switzerland

10:50 Human-environment interactions in the Middle Kama River Basin (pre-Urals, Russia) during the Holocene

V. Batalova¹, P. Sannikov², E. Orlova², M. Pereskakov², V. Mingalev³, L. Shumilovskikh¹

¹Georg-August-University of Göttingen, Göttingen, Germany, ²Perm State University, Perm, Russian Federation, ³Higher School of Economics, Perm, Russian Federation

11:10 Discussion**11:20 Exploring social and environmental factors that shaped the crop choice at a Younger Bronze Age settlement in north-eastern Germany***M. Oelbüttel^{1, 2}, D. Filipović^{1, 2, 3}, W. Kirleis^{1, 2, 3}*¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany**11:40 Roman Egypt at the crossroad between agriculture and climate***S. Baldin*

Department of Ancient Civilizations, Basel University, Basel, Switzerland

**12:00 Lunch break****13:30 Exploring urban provisioning and environmental exploitation across early cities: isotopic and zooarchaeological evidence for herd management in Archaic Italy***A. Trentacoste¹, C. Makarewicz^{1, 2, 3}*¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany**13:50 Ex oriente oliva***E. Revert Francés*

CRC 1070, University of Tübingen, Tübingen, Germany

14:10 Discussion**14:20 Moving on the edge? Early farming among the peripheral communities of Central Europe***M. Ptáková¹, V. Komárková¹, M. Hajnalová², T. Šálková^{1, 3}, A. Pokorná⁴, M. Pták³, J. Bumerl¹, V. Vondrovský⁴*¹Laboratory of Archaeobotany and Palaeoecology, University of South Bohemia, České Budějovice, Czech Republic, ²Department of Archaeology, Constantine the Philosopher University, Nitra, Slovakia, ³Department of Archaeology, University of South Bohemia, České Budějovice, Czech Republic, ⁴Institute of Archaeology, Czech Academy of Sciences, Prague, Czech Republic

POSTER SESSION

■ **Wednesday, March 15, 15:30**

Poster **First results: Suitability of the Chora Plain on Samos (Greece) for ancient agriculture**

S. Dannemann¹, P. Avramidis², A. Emmanouilidis¹, J.-M. Henke³, C. Piechocki¹, I. Unkel⁴

¹Institute for Ecosystem Research, Kiel University, Kiel, Germany, ²University of Patras, Patras, Greece,

³DAI Athen, Athen, Greece, ⁴University of Heidelberg, Heidelberg, Germany

Session 36: Tellscape: New insights into the human multiple land-use and impact on the environment in the European Neolithic

Chair: C. Covataru, S. Dreibrodt, W. Kirleis, C. Lazar, J. Müller, R. Hofmann

Monday, March 13, Lecture Hall

15:30 Session Keynote: Tellscapes and Megascapes

M. Videiko

Borys Grinchenko Kyiv University, Kyiv, Ukraine

16:00 Session Keynote: Contrasting tells: new settlement excavations east of the Dnjestr

V. Rud

Institute of Archaeology of the Ukrainian Academy of Science, Kyiv, Ukraine

16:30 Discussion

16:50 Szegvár-Tűzköves: Internal structure of a Late Neolithic stratified settlement in the southern Tisza region

G. Mesterházy^{1,2}, A. Füzesi^{1,3}, K. Szilágyi⁴, E. Bánffy⁵, K. Rassmann⁵, G. Serlegi², P. Raczky¹

¹Faculty of Humanities Institute of Archaeological Sciences, Eötvös Loránd University, Budapest, Hungary, ²National Institute of Archaeology, Hungarian National Museum, Budapest, Hungary, ³Hungarian National Museum, Budapest, Hungary, ⁴Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ⁵Römisch-Germanische Kommission, Frankfurt am Main, Germany

17:10 Tell life and climate change at the 4.5-4.2 cal BC climatic transition in the Carpathian Basin: insights from paleoclimate and paleovegetation records

E. Magyari¹, A. Bede-Fazekas^{1,2}, G. Darabos¹, M. Merkl¹, M. Moskal-Hoyo³

¹Department of Environmental and Landscape Geography, Eötvös Loránd University, Budapest, Hungary, ²Institute of Ecology and Botany, Centre for Ecological Research, Vácrátót, Hungary, ³W. Szafer Institute of Botany, Polish Academy of Sciences, Krakow, Poland

■ Tuesday, March 14, Lecture Hall

08:30 **Opovo Ugar-Bajbuk (Serbia) - New results and a reevaluation of a multi-phase site of the Vinča culture**

F. Wilkes^{1, 2}, M. Bircliu³, A. Medović⁴, M. Furholt^{1, 2, 5}, I. Medović⁴, K. Szilágyi², R. Hofmann^{2, 5}

¹Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ²Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ³National Museum of Pančevo, Pančevo, Serbia, ⁴Museum of Vojvodina, Novi Sad, Serbia, ⁵CRC 1266, Kiel University, Kiel, Germany

08:50 **Enclosing the Neolithic Tells in Pelagonia: inhabiting and maintaining the agricultural settlements next to wetlands**

G. Naumov

Center for Prehistoric Research, Museum of Macedonia, Skopje, Macedonia, the former Yugoslav Republic of

09:10 **Discussion**

09:20 **Abandonment, Destruction or Closer? What (actually) happens at the end of the life cycle of a tell settlement?**

C. Lazar¹, J. Müller^{2, 3, 4}, T. Ignat⁵, R. Hofmann^{2, 4}

¹ArchaeoSciences Division, ICUB, University of Bucharest, Bucharest, Romania, ²Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁴CRC 1266, Kiel University, Kiel, Germany, ⁵Archaeology, Museum of Bucharest, Bucharest, Romania

09:40 **40 years later...our settlement has "grown". Recent excavations and geophysical surveys in the neolithic tell-like settlement from Chișoda, southwestern Romania**

D. Diaconescu, A. Georgescu, A. Sărășan, A. C. Ardelean

Department of Archaeology, National Museum of Banat, Timișoara, Romania



10:00 **Coffee break**

10:30 **Plant consumption in late Gumelnița culture at Geangoești-Hulă tell (Southern Romania)**

A. Ilie¹, M. Golea²

¹"Princely Court" National Museum Târgoviște, Târgoviște, Romania, ²"Vasile Pârvan" Institute of Archaeology, Department of Bioarchaeology, Bucharest, Romania

10:50 Ghost-like monuments. A review of the Eneolithic tell sites in the proximity of Bucharest

V. Opriş¹, C. Covataru², C. Stal³

¹History, Bucharest Municipality Museum, Bucharest, Romania, ²Research Institute, University of Bucharest, Bucharest, Romania, ³Department of Built Environment, HOGENT University of Applied Sciences and Arts, Ghent, Belgium

11:10 Discussion

11:20 Tell from the past. Măriuța-La Movilă: a Chalcolithic tell settlement from South-East Romania.

B. Manea¹, C. Covătaru¹, V. Parnic², C. Haită³, C. Lazăr¹, C. Roth¹

¹ArchaeoSciences Division, ICUB, University of Bucharest, Bucharest, Romania, ²The Lower Danube Museum (MDJ), Călărași, Romania, ³The National Museum of Romanian History (MNIR), Bucharest, Romania

11:40 Digging in the archives: the tell settlements of Măriuța and Șeinoiu, southern Romania

C. E. Ștefan¹, M. Ș. Florea²

¹"Vasile Pârvan" Institute of Archaeology, Romanian Academy, National Museum of Antiquities, Bucharest, Romania, ²National Museum of Romanian History, Bucharest, Romania



12:00 Lunch break

13:30 Burials from the Late Neolithic tell settlement of Polgár-Csőszhalom, NE Hungary

A. Anders¹, A. Füzesi², T. Hajdu³, P. Raczky¹, E. Somogyvári-Lajtár⁴

¹Institute of Archaeological Sciences, Eötvös Loránd University, Budapest, Hungary, ²Hungarian National Museum, Budapest, Hungary, ³Institute of Biology, Eötvös Loránd University, Budapest, Hungary, ⁴Geographical Institute Research Centre for Astronomy and Earth Sciences, Budapest, Hungary

13:50 Land and water-use in the Gumelnița site (5th millennium BC, Romania): a study on stable isotopes

A. García-Vázquez¹, A. Bălășescu², G. Vasile², M. Golea², V. Radu^{1,3}, C. Lazăr¹

¹ArchaeoSciences Division, Research Institute of the University of Bucharest (ICUB), Bucharest, Romania, ²"Vasile Pârvan" Institute of Archaeology, Romanian Academy, Bucharest, Romania, ³National Museum of Romanian History, Bucharest, Romania

14:10 Discussion

14:20 Plant economy during the Kodjadermen-Gumelnița-Karanovo VI culture in the Lower Danube Valley (South Romania)

M. Golea¹, D. Hanganu², M. Iacob³, C. Lazăr², C. Mircea⁴, A. García-Vázquez²

¹Department of Bioarchaeology, “Vasile Pârvan” Institute of Archaeology, Romanian Academy, Bucharest, Romania, ²ArchaeoScience#RO platform, Research Institute of the University of Bucharest, Bucharest, Romania, ³University of Bucharest, Bucharest, Romania, ⁴Department of Molecular Biology and Biotechnology, Babes-Bolyai University, Cluj-Napoca, Romania

14:40 Tell-ing the story of genesis. 100 years of Sultana-Malu Roșu

T. Ignat¹, M. Florea², V. Opreș³, M. Voicu², C. Haită², A. Bălășescu⁴, V. Radu², M. Golea⁴, B. Manea⁵, C. Covătaru⁵, C. Stal⁶, J. Muller^{7, 8, 9}, R. Hofmann^{7, 9}, W. Kirleis^{7, 8, 9}, V. Parnic¹⁰, C. Lazăr⁵

¹Archeology, Municipality Museum Of Bucharest, Bucharest, Romania, ²Archeology, National History Museum of Romania, Bucharest, Romania, ³History, Municipality Museum Of Bucharest, Bucharest, Romania, ⁴“Vasile Pârvan” Archaeology Institute, Romanian Academy, Bucharest, Romania, ⁵ArchaeoSciences Division, Research Institute, University of Bucharest, Bucharest, Romania, ⁶HOGENT University of Applied Sciences and Arts, Gent, Belgium, ⁷Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ⁸Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁹CRC 1266, Kiel University, Kiel, Germany, ¹⁰Archeology, Lower Danube Museum, Călărași, Călărași, Romania



15:00 Coffee break

15:30 Environmental changes and human activities in the vicinities of a Late Neolithic archaeological hot-spot (Sultana) in South Romania: A multi proxy approach

D. Hanganu^{1, 2}, A. Vespremeanu-Stroe¹, L. Preoteasa³, L. Țuțuianu^{1, 2}, C. Covătaru⁴, M. Dobre³, C. Lazăr⁴

¹GEODAR Research Center for Geomorphology, Geoarchaeology, and Paleo-Environments, ICUB Research Institute of the University of Bucharest, Bucharest, Romania, ²ArchaeoSciences Division, ICUB Research Institute of the University of Bucharest, Bucharest, Romania, ³GEODAR Research Center for Geomorphology, Geoarchaeology, and Paleo-Environments, University of Bucharest, Bucharest, Romania, ⁴ICUB Research Institute of the University of Bucharest, ArchaeoSciences Division, Bucharest, Romania

15:50 Lake Sediments from near tell Sultana and tell Chiselet in Romania as keys to transformations in Chalcolithic times

S. Dreibrodt^{1, 2, 3}, F. Schlütz^{3, 4}

¹CRC 1266, Kiel University, Kiel, Germany, ²Institute for Ecosystem Research, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁴Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany

16:10 Sultana Malu Roșu cemetery (Romania): A (bio)archaeological overlook*A. Toma¹, G. Vasile², C. Roth¹, I. Opris¹, C. Covătaru¹, T. Ignat^{1, 3}, M. Florea^{1, 4}, C. Lazăr¹*

¹Research Institute of the University of Bucharest (ICUB), Bucharest, Romania, ²Vasile Pârvan Institute of Archaeology, Romanian Academy, Bucharest, Romania, ³Bucharest Municipality Museum, Bucharest, Romania, ⁴National History Museum of Romania, Bucharest, Romania

16:30 Versatile dimension of the shell adornments: perforated Lithoglyphus naticoides from the Sultana-Malu Roșu tell settlement and cemetery (Romania)*M. Margarit¹, V. Radu², V. Atudorei³, B. Manea⁴, C. Covataru⁴, T. Ignat⁵, V. Opris⁶, C. Lazar⁴*

¹Doctoral School of Economics and Humanities, Valahia University of Targoviste, Targoviste, Romania, ²National History Museum of Romania, Bucharest, Romania, ³New Mexico University, Albuquerque, United States of America, ⁴ArchaeoSciences Division, ICUB, University of Bucharest, Bucharest, Romania, ⁵Archaeology Department, Bucharest Municipality Museum, Bucharest, Romania, ⁶History Department, Bucharest Municipality Museum, Bucharest, Romania

16:50 Life in the floodplain: Multidisciplinary research on the Copper Age Tell Chiselet in the Lower Danube Basin*R. Hofmann^{1, 2}, S. Dreibrödt^{2, 3, 4}, M. Zolchow^{2, 5}, A. Balasescu⁶, V. Radu⁷, C. Stal⁸, T. Ignat⁹, F. Schlütz^{1, 2, 4}, C. Covataru¹⁰, C. Lazar¹⁰, W. Kirleis^{1, 2, 4}, W. Rabbel^{2, 4, 5}, J. Müller^{1, 2, 4}*

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Institute for Ecosystem Research, Kiel University, Kiel, Germany, ⁴Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁵Applied Geophysics, Institute for Geosciences, Kiel University, Kiel, Germany, ⁶Institute of Archaeology, Bucharest, Romania, ⁷National Museum of Romanian History, Bucharest, Romania, ⁸Department of Real Estate and Land Surveying, Ghent University College, Ghent, Belgium, ⁹Bucharest Municipality Museum, Bucharest, Romania, ¹⁰ArchaeoSciences Division, Research Institute, University of Bucharest, Bucharest, Romania

17:10 Geophysical multimethod investigations of a tell near Chiselet (Romania)*M. Zolchow^{1, 2}, N. Pickartz³, A. Serbanescu⁴, D. Köhn¹, E. Erkul¹, S. Dreibrödt^{2, 5, 6}, R. Hofmann^{2, 7}, J. Müller^{2, 6, 7}, C. Lazar⁴, W. Rabbel^{1, 2, 6}*

¹Institute of Geosciences, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany, ³Regierungspräsidium Stuttgart, Landesamt für Denkmalpflege, Ludwigsburg, Germany, ⁴Research Institute of the University of Bucharest (ICUB), University of Bucharest, Bucharest, Romania, ⁵Institute for Ecosystem Research, Kiel University, Kiel, Germany, ⁶Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁷Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany

POSTER SESSION

■ **Wednesday, March 15, 15:30**

Poster **Examining Mobility and Land Use in the Mostiștea River Valley, Romania during the Eneolithic through Strontium Isotopic Analyses of Plants and Human Tooth Enamel**

A. Tafani^{1,2}, C. Snoeck³, E. Greco⁴, R. H. Tychot¹, C. Covățaru², T. Ignat^{2,5}, C. Lazăr²

¹Applied Anthropology, University of South Florida, Tampa, United States, ²Research Institute of the University of Bucharest, ArchaeoSciences Division, University of Bucharest, Bucharest, Romania,

³Brussels Bioarchaeology Lab, Free University of Brussels, Brussels, Belgium, ⁴Department of Chemical and Pharmaceutical Sciences, University of Trieste, Trieste, Italy, ⁵Bucharest Municipality Museum, Bucharest, Romania

Session 37: Why do people discard? Questioning the relationship between valuation and behaviour

Chair: S. Mura, J. Schneeweiß

■ Friday, March 17, Room 204

08:30 Individual experience and emotional closeness: Archaeologists' valuation of encountered objects

M. Mitrović

Faculty of Philosophy, University of Belgrade, Belgrade, Serbia

08:50 There's something about the fragments... Fragmented objects in graves as a special form of discard

M. Augstein

Chair of Prehistory and Early History, University of Leipzig, Leipzig, Germany

09:10 Discussion

09:20 Buried or discarded? The deposition of human remains in settlements at the Early Bronze Age site of Ulrichskirchen, Austria

D. Verdianu^{1,2}

¹Austrian Archaeological Institute, Austrian Academy of Sciences, Wien, Austria, ²Department of Prehistoric and Historical Archaeology, University of Vienna, Wien, Austria

09:40 Trash or Votive – The high complexity of depositional contents in the extra-urban sanctuary of S. Anna (Agrigent)

A. Bell

Faculty of Philology and History - Chair of Classical Archaeology, University of Augsburg, Augsburg, Germany



10:00 Coffee break

10:30 For what it's worth – Concepts of waste and value in Bronze Age Tyrol

J. Keil

Department of Archaeologies, Innsbruck University, Innsbruck, Austria

10:50 A glimpse into ceramic depositional practices in Neolithic causewayed enclosure in northern France (4200-3600 BC)

A. Marty

UMR 8215 - Trajectoires, Paris 1 Panthéon-Sorbonne University, Paris, France

11:10 Discussion

11:20 The Chaîne Éliminatoire – an approach to define rubbish in archaeological material

G. Civis

DVA - Deutscher Verband für Archäologie, Berlin, Germany

11:40 Used, Stored, Discarded. Waste Behaviour and Treatment of Faeces in the Late Latène settlement of Basel-Gasfabrik (Switzerland)

D. Brönnimann^{1,2,3}, J. Wimmer³, B. Stopp¹, M. Müller-Kissing⁴, H. Rissanen³, N. Spichtig³, P. Rentzel¹

¹Department of Environmental Sciences/ Integrative Prehistory and Archeological Science (IPAS), University of Basel, Basel, Switzerland, ²Department of Ancient Civilizations - European Archaeology, University of Basel, Basel, Switzerland, ³Archäologische Bodenforschung Basel-Stadt, Basel, Switzerland, ⁴Institut für Archäologische Wissenschaften, Ruhr-Universität Bochum, Bochum, Germany



12:00 Lunch break

13:30 From septic tank to Ottoman diet in Ainos (Turkey): a view from the inside

L. Shumilovskikh¹, A. Dan², J.-B. Houa², H. Brückner³, F. Reize³, E. Erku⁴, W. Rabbel^{4,5,6}, S. Başaran⁷

¹Palynology and Climate Dynamics, Georg-August-University Göttingen, Göttingen, Germany, ²CNRS-ENS, Université Paris Sciences et Lettres, Paris, France, ³University of Cologne, Cologne, Germany, ⁴Applied Geophysics, Institute of Geosciences, Kiel University, Kiel, Germany, ⁵Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁶CRC 1266, Kiel University, Kiel, Germany, ⁷Istanbul University, Istanbul, Turkey

13:50 There is treasure everywhere... About views and perspectives. How can an attribution of value be recognised in archaeological findings?

J. Schneeweiß^{1,2,3}

¹Centre for Baltic and Scandinavian Archaeology, Schleswig / Kiel, Germany, ²Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ³Cluster of Excellence ROOTS, Kiel University, Kiel, Germany

Why do people discard? Questioning the relationship between valuation and behaviour

14:10 **Discussion**

14:20 **Session Keynote: 50 years garbology: a review**

L. Papoli-yazdi

Malmö University, Kalmar, Sweden

14:50 **Discussion**

Session 38: Modeling cultural landscapes through the entanglement of human and non-human agents

Chair: *D. Kiosak, S. Radchenko*

■ **Thursday, March 16, Room 208**

10:30 **Keynote t.b.a.**

11:00 **Cultural landscape as entanglement of different agents and features of their interaction**

S. Radchenko

Department of Historical Sciences, University of Turin, Turin, Italy

11:20 **Ontologies and Digital Archaeology: DataARC's landscape approach for modelling human ecodynamics in the North Atlantic**

P. Barruezo-Vaquero

University of Granada, Granada, Spain

11:40 **How to hunt, how to herd? Exploring human-Rangifer interactions and applications of Traditional Ecological Knowledge in archaeology**

M. Windle^{1,2}, A. Lemke³, H. Piezonka^{1,2,4}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³Department of Sociology and Anthropology, University of Texas, Arlington, United States of America, ⁴CRC 1266, Kiel University, Kiel, Germany



12:00 **Lunch break**

13:30 **'Animals into humans': Multispecies encounters, relational ontologies, and social identity in Indigenous rock art from northeast Kimberley, Australia**

A. P. Motta

The University of Western Australia, Perth, Australia

13:50 The sound of the Bronze Age*I. H. Johns*

Norwegian University of Science and Technology, Trondheim, Norway

14:10 Discussion**14:20 Erosion Control, Horticulture, and Last Resting Place for the Elites – The Monumental Earthworks of Palau***A. Kühlem¹, H.-R. Bork^{1, 2, 3}, A. Mieth¹*¹Institute for Ecosystem Research, Kiel University, Kiel, Germany, ²Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany**14:40 The settlement pattern of the Sabatynivka group of the Cucuteni A-Trypillia B1 stage***M. Lobanova*

Department of Archaeology and Museology, Masaryk University, Brno, Czech Republic

**15:00 Lunch break****15:30 Intertwined “lifeworld(s)” in the Central Mediterranean during the 2nd millennium BC.***E. Lucci*

Department of Antiquities, Sapienza University of Rome, Rome, Italy

15:50 Visitor and temple: New tendencies of the aesthetic staging in Hellenistic temple architecture*M. Klein*

Heidelberg University, Heidelberg, Germany

16:10 Discussion**16:20 Man and things: Kinesics and proxemics in the process of perception of objects in the archaic Greek culture***S. Borowicz*

Centre for Multimodal Educational and Cultural Research, Jagiellonian University, Cracow, Poland

POSTER SESSION

■ **Wednesday, March 15, 15:30**

Poster **Rock Art as a Mechanism for Safeguarding Traditional Ecological Knowledge**

M. Ortega-Rincon

Australian Research Centre for Human Evolution, Griffith University, Southport, Australia

Session 39: Waterscape: Humans, Environment, and Hydrology in the Holocene

Chair: S. Dreibrodt C. Lazar, V. Radu

■ **Wednesday, March 15, Room 207**

08:30 **Human-landscape interactions in the Călmățui Valley (SE Romania) during the Late Neolithic. Insights into tell settlements developed on relict floodplain islands**

A. Vespremeanu-Stroe¹, D. Gărvan², L. Țuțuianu^{1,3}, D. Hanganu^{1,3}, A. Berbecariu⁴, M. Dobre⁴, A. Frânculeasa⁵, C. Șuteu², L. Preoteasa⁴

¹GEODAR Research Center for Geomorphology, Geoarchaeology, and Paleo-Environments, ICUB Research Institute of the University of Bucharest, Bucharest, Romania, ²Buzău County Museum, Buzău, Romania, ³ArchaeoSciences Division, ICUB Research Institute of the University of Bucharest, Bucharest, Romania, ⁴GEODAR Research Center for Geomorphology, Geoarchaeology, and Paleo-Environments, University of Bucharest, Bucharest, Romania, ⁵Prahova County Museum of History and Archaeology, Ploiești, Romania

08:50 **Shells adornments, waterscape, and past people behaviours. A case study from the Romanian Eneolithic**

C. Lazar¹, V. Radu^{1,2}, M. Margarit³, V. Atudorei⁴, B. Manea¹

¹ArchaeoSciences Division, ICUB, University of Bucharest, Bucharest, Romania, ²National History Museum of Bucharest, Bucharest, Romania, ³"Valahia", Targoviste, Romania, ⁴New Mexico University, Albuquerque, United States of America

09:10 **Discussion**

09:20 **Moving into the wetlands – medieval land reclamation in the Wadden Sea of North Frisia (Germany)**

H. Hadler¹, D. Wilken^{2,3,4}, B. Majchczack^{4,5}, R. Blankenfeldt⁶, S. Klooss⁷, S. Bäuml^{2,3}, C. von Carnap-Bornheim^{4,5,6}, U. Ickerodt⁷, W. Rabbel^{2,3,5}, A. Reiss¹, T. Willershäuser¹, A. Vött¹

¹Institute of Geography, University of Mainz, Mainz, Germany, ²Applied Geophysics, Institute of Geosciences, Kiel University, Kiel, Germany, ³CRC 1266, Kiel University, Kiel, Germany, ⁴Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ⁵Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁶Centre for Baltic and Scandinavian Archaeology, Schleswig, Germany, ⁷Archäologisches Landesamt Schleswig-Holstein, Schleswig, Germany

09:40 **Two seemingly opposite examples of human related lake level variations in NE-Germany.**

M. Theuerkauf

Institute of Botany and Landscape Ecology, University of Greifswald, Greifswald, Germany



10:00 **Coffee break**

10:30 **The Management of Marseilles' Old Port Through Written Sources: Eco-hydrology, Geo-engineering Techniques and Effects on the Urban Coastal Environment (1400-1900)**

N. Maughan

Umr-CNRS 7373, Aix-Marseille University, Marseille, France

10:50 **Human-environmental interactions in the Grado-Marano Lagoon (NE Italy)**

G. Vinci¹, A. Fontana², A. M. Mercuri³, S. Campana¹

¹Department of History and cultural heritage, University of Siena, Siena, Italy, ²Department of Geosciences, University of Padua, Padova, Italy, ³University of Modena, Modena, Italy

11:10 **Discussion**

11:20 **The relationship between the waterscape and soil composition of southern Trinidad in the Early to Mid Holocene - a template for new enquiries into the historical ecology of the Caribbean**

C. Pilgrim

Archaeology, University of Cambridge, Cambridge, United Kingdom

11:40 **Life at the land-water transition area. Change, adaptation and opportunities**

B. Meller¹, A. Siegmüller²

¹Vor- und Frühgeschichtliche Archäologie, University of Hamburg, Hamburg, Germany, ²Clay District- and Landscape Archaeology, Niedersächsisches Institut für historische Küstenforschung, Wilhelmshaven, Germany



12:00 **Lunch break**

13:30 **Session Keynote: Archeosciences of waterscapes, societies and environments during the late Holocene: A Mediterranean approach, Marseille, Akko, Venice and Gizzeh...**

C. Morhange¹, A. Bivolaru², N. Marriner³

¹École pratique des hautes études - PSL, Marseille, France, ²University of Venice, Venice, Italy, ³University of Franche-Comté, Besançon, France

13:50 **Discussion**

POSTER SESSION

■ **Wednesday, March 15, 15:30**

Poster **Colonising a lake: the Roman conquest of the Middle Umbrian Valley**

E. Laschi

University of Bonn, Bonn, Germany

Session 41: Stone Age seafaring and early maritime societies

Chair: *A. Kehoe, B. Schulz Paulsson*

Monday, March 13, Room 207

15:30 **Session Keynote: Curraghs: the Probable Early Seacraft of Northern Europe**

A. Kehoe

Retired, Milwaukee, United States of America

16:00 **Watercraft Innovation and Social Complexity: Comparative Analysis of Stone Age Boats from Scandinavia, California, and Japan**

M. Fauvelle, P. Jordan

Department of Archaeology and Ancient History, Lund University, Lund, Sweden

16:20 **Sea watch & Sea uses (northwest France, 5th - 3rd mill. cal BC)**

J.-N. Guyodo¹, A. Blanchard²

¹UMR 6566 CReAAH, Laboratoire LARA, University of Nantes, Nantes, France, ²UMR 6566 CReAAH, Laboratoire LARA, Archeodunum, Sainte-Luce-sur-Loire, France

16:40 **Similar Waters, Different Worlds: Exploring the Interplay between Seafaring, Environment and Social Strategies on the Pacific Northwest Coast and Southern South America**

A. Garcia-Piquer

Department of Prehistory, Autonomous University of Barcelona, Barcelona, Spain

17:00 **NEOSEA: How Neolithic seafaring and maritime technologies shaped a new interconnected world of megalithic societies**

B. Schulz Paulsson

Department of Historical Studies, Gothenburgs University, Gothenburg, Sweden

17:20 **Discussion**

Session 42: Scales of Transformation: the power of material minds

Chair: A. Clark, F. Criado-Boado, L. Martínez-Torres, J. Müller

■ Thursday, March 16, Room 207

08:30 Session Keynote: t.b.a.

U. Sommer

UCL London, Institute of Archaeology Gordon Square, London, United Kingdom

09:00 XSCAPE. A new Methodology for the Study of Material Minds

F. Criado-Boado¹, A. Clark², L. M. Martínez³, J. Müller^{4, 5, 6}

¹Institute of Heritage Sciences, Spanish National Research Council, Santiago de Compostela, Spain,

²Department of Informatics, University of Sussex, Brighton, United Kingdom, ³Institute of Neurosciences, Spanish National Research Council, Alicante, Spain, ⁴Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ⁵Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, ⁶CRC 1266, Kiel University, Kiel, Germany

09:20 Creating material and cultural landscapes - A constraints ontology for multiscale socio-historical dynamics

A. Guénin-Carlut

Department of Engineering and Informatics, University of Sussex, Brighton, United Kingdom

09:40 Computational Methodology for Exploring Attention in a Material World.

A. Constant¹, A. Clark²

¹Department of Engineering and Informatics, University of Sussex, Brighton, United Kingdom,

²Department of Philosophy, University of Sussex, Brighton, United Kingdom



10:00 Coffee break

10:30 Typologies as an illustration of the archaeologist perception?

L. Scholtus

ERC XSCAPE, Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany

10:50 Understanding the emergence of burial practice from a visual perception perspective

K. Szilágyi

Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany

11:10 Discussion**11:20 What an ancient pot tells a present-day mind. A view from cognitive archaeology**

L. M. Martínez-Otero¹, F. Criado-Boado²

¹The Spanish National Research Council, Alicante, Spain, ²Incipit, The Spanish National Research Council, Santiago de Compostela, Spain

11:40 'Blick und Glas, wie leicht bricht das': Contributions from an anthropological theory of breakage

B. Vindrola-Adrós

Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany

**12:00 Lunch break****13:30 Steps towards modernising pottery stylistic analysis: the first results of using eye-tracking method in Germany**

L. Scholtus, K. Szilágyi, B. Vindrola-Adrós

Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany

13:50 Continuity, discontinuity, transformations and Hodder's entanglement: how materiality changed minds in the Neolithic

G. Higginbottom

Instituto de Ciencias del Patrimonio (Incipit, CSIC), Santiago de Compostela, Spain

14:10 Discussion**14:20 Oral literature and material culture - structural similarities in the Bronze Age and the Early Iron Age**

T. Gralak

Institute of Archaeology, University of Wrocław, Wrocław, Poland

14:40 Stone Age to Metal Age: Transformation of Society during 2000 BCE - 200 BCE in South India

K. Pulla Rao¹, C. Praveen Raju²

¹Department of History, University of Hyderabad, Hyderabad, India, ²Department of History and Archaeology, Yogi Vemana University, Kadapa, India

POSTER SESSION

■ **Wednesday, March 15, 15:30**

Poster **Continuities and ruptures between the 6th and the 5th millennium in the Žytava Valley. The transition from the Linear Pottery Culture to the Lengyel groups**

J. M. Morillo León^{1,2}

¹Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, ²CRC 1266, Kiel University, Kiel, Germany

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