PROGRAMME

www.kielconference.uni-kiel.de
KIEL CONFERENCE
Scales of Social, Environmental & Cultural Change in Past Societies
Kiel University, March 13 – 18, 2023

PROGRAMME

Editing:
Franziska Engelbogen, Nicole Taylor, Andrea Ricci

Layout and illustration:
Carsten Reckweg

Contact:
Leibnizstr. 3
24118 Kiel
www.kielconference.uni-kiel.de
kielconference2023@roots.uni-kiel.de

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
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 inter-disciplinary spectra: From Late glacial societies to communities of pre-modern cites, 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”
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Venue building
Leibnizstr. 1
24118 Kiel
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
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**Monday, 13 March**
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**Wednesday, 15 March**
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**Posters**
- Poster Session
### WEKLY OVERVIEW

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Monday, 13 March

15:30 – 17:30

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

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

SESSION 41
Stone Age seafaring and early maritime societies

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

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

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

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

CENTRAL KEYNOTE
L. Sanjuán
Tuesday, 14 March

8:30 – 10:00

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

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

SESSION 2
Beyond Gender transformations? Archaeological context and intersectionality

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

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

10:30 – 12:00

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

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

ROOM 209

ROOM 208

ROOM 207

ROOM 204

ROOM 106

ROOM 105

Lecture hall

CENTRAL KEYNOTE
D. Fuller

13:30 – 15:00

SESSION 8
Analog Modelling the Late Neolithic and the Early Bronze

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

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

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

15:30 – 17:30

18:00 – 19:00
# Daily Overview

## Wednesday, 15 March

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<th>Time</th>
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**Session 1**

**SESSION 23**
Through the flames and into the grave – multidisciplinary research into past and present cremation practices and burials

**SESSION 18**
Prehistory of politics – politics of prehistory

**SESSION 39**
Waterscape: Humans, Environment, and Hydrology in the Holocene

**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...

**SESSION 5+15**
Waterscape Dynamics - Chances and Challenges in Human-Water Interactions

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

**SESSION 3**
Craft and apprenticeship in past societies: a barometer of social changes. Methods, Issues and Interpretations

**Poster Session**

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**Room Numbers**

- ROOM 209
- ROOM 208
- ROOM 207
- ROOM 204
- ROOM 106
- ROOM 105

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**Conference Location**

- Lecture hall

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**Contact Information**

KIEL CONFERENCE

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**Event Date**

Wednesday, 15 March

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**Conference Venue**

- KIEL CONFERENCE

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**Conference Sponsor**

- Sponsor Information

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**Conference Theme**

- Conference Theme Information
### Thursday, 16 March

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 34: Barrows as records of human activities, materials, networks, innovations</th>
<th>Session 31: Innovations in the Urnfield Culture</th>
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<tr>
<td>8:30 – 10:00</td>
<td>ROOM 209</td>
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<td><strong>SESS. 20</strong> De-escalation Strategies in Past Societies</td>
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<td>10:30 – 12:00</td>
<td>Session 42: Scales of Transformation: the power of material minds</td>
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<td>Session 38: Modeling cultural landscapes through the entanglement of human and non-human agents</td>
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<td>18:00 – 19:00</td>
<td>Session 5 + 15: Comparing Scales and Transformation in Population Dynamics: Old and New Challenges</td>
<td>Session 13: Scales of mobility in 3rd millennium BC Europe</td>
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<td><strong>SESSION 3</strong> Craft and apprenticeship in past societies: a barometer of social changes. Methods, Issues and Interpretations</td>
<td><strong>SESSION 9</strong> ROOTS Past-Present Connectivities Essay Competition</td>
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<td>Lecture hall</td>
<td><strong>SESSION 14</strong> Understanding past transformations: Complex patterns, scales, and anatomies</td>
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Scales of Social, Environmental & Cultural Change in Past Societies
Friday, 17 March

8:30 – 10:00

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

ROOM 209

10:30 – 12:00

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 208

13:30 – 15:00

SESSION 4
Museums and university collections in the field of tension of current social discourses

ROOM 204

15:30 – 16:30

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

ROOM 207

16:30 – 17:30

Lecture hall

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 Schleswig-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.

Kronsburg-Glinde
Brekendorf
Busdorf
Kosel
Missunde
Kiel
Jellenbek
Karlsminde
Kronsburg-Glinde
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. Løvschalc
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. Schultrich1, 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. Bełka2, P. Silska1, M. Szmyt1,3
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. Mengyán1,2, Z. Hrabák1, Z. Sz. Osváth3, B. Bajnóczi4, M. Braun5, L. Paja3
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 Acadamy 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. Rățoi3, M. Brebu4
1Science Department - Arheoinvest Research Center, Alexandru Ioan Cuza University of Iasi, Iași, Romania, 2Faculty of History, Alexandru Ioan Cuza University of Iasi, Iași, Romania, 3Faculty of Geography and Geology, Alexandru Ioan Cuza University of Iasi, Iași, Romania, 4Institute of Macromolecular Chemistry “Petru Poni” Iași, Romanian Academy, Iași, 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. Chroni¹², 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. Serbe¹²*  
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. Grimm¹,³  
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
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<tr>
<th>Time</th>
<th>Session Title</th>
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<tr>
<td>11:10</td>
<td>From the chaîne opératoire to the social structure of early Neolithic communities: knappers versus potters from the Danubian and the Mediterranean worlds</td>
<td>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 CEPROM, Côte d'Azur University, Nice, France, ⁴UMR 8215 Trajectoires, French National Centre for Scientific Research, Paris, France</td>
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<td>11:30</td>
<td>Understanding technological stability and change</td>
<td>V. Roux  French National Centre for Scientific Research, Nanterre, France</td>
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<td>12:00</td>
<td>Lunch break</td>
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<td>13:30</td>
<td>Group and individual variability in pottery production – a case study of the LBK site Cząstków Polski XII in Mazovia, Poland</td>
<td>J. Pyzel¹, L. Gomart² ¹Institute of Archaeology, Maria Curie-Sklodowska University, Lublin, Poland, ²Centre national de la recherche scientifique, Paris, France</td>
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<td>13:50</td>
<td>Organizing the pile of sherds: can the Kohonen maps cope?</td>
<td>A. Korokhina¹, ² ¹Institute of Archaeology, National Academy of Sciences of Ukraine, Kyiv, Ukraine, ²Leibniz Institute for the History and Culture of Eastern Europe, Leipzig, Germany</td>
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<td>14:10</td>
<td>Learning without forgetting: Early Iron Age Iberian potters between wheel and handmade techniques.</td>
<td>B. Cutillas-Victoria¹, 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</td>
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<tr>
<td>14:30</td>
<td>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</td>
<td>S. Manem  CNRS, UMR 8068 TEMPS, Nanterre Cedex, France</td>
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Thursday, March 16 • Room: Lecture Hall

08:30 First Metallurgy in Greater Poland
D. Żurkiewicz1, 2, M. Strójyk2, P. Silska3, M. Szmyt2, 3, A. Garbacz-Klepka4
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. Dumont1, 2, M. Boone3, I. Josipovic1, 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. Rimkus1, 2, 3, M. Iršėnas2, A. Butrimas2, K. Mannermaa2, 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. Macāne1, 2, T. Rimkus3, 4, 5, M. Kalniņš4, 5, 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. Bergsdóttir1, 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 Porto1, 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. Schöps²-³, 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. Gutsiedl-Schümann³
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. Grimm¹,², S. Detjens¹,², B. V. Eriksen¹,²,³, T. Reuter¹, M.-J. Weber¹,²,³
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. Lübke¹,²
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. Feeser¹,²,³, J. P. Brozio¹,², M. Heumüller⁴, H. Agerskov Rose²,⁵, J. Meadows⁶,⁷, L. Shindo¹,³, W. Dörfler¹,²,³
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. Alinezhad1, 2, W. Doerfler1, 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
Department 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

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**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. Duffy¹, 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. Buckland⁴, K. Hristov¹, R. I Macphail³, 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. Filipović³, 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 Household holding and food ‘hoarding’: plant foods in Bronze Age houses in the Carpathian Basin
D. Filipović¹, ², ³, F. Schlütz¹, ², ³, S. Filatova⁴, D. Jovanović⁵, M. Ljuština⁶, F. Bittmann⁷, W. Kirleis¹, 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-Victoria¹, 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. D’Aquino², 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-Cappenberg*, *R. Kenig*, *M. Nowak*, *A. Czekaj-Zastawny*, *A. Rau-ba-Bukowska*, *M. Roffet-Salque*, *C. Maule*, *M. Kapcia*, *A. Wacnik*, *D. H. Werra*, *M. Moskal-del Hoyo*

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*, *G. Sirbu*, *S. Heghea*, *L. Shatilo*, *J. Müller*

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. Magnini*, *C. Bettineschi*, *V. Venco*, *A. Michielin*, *E. Griggio*, *A. De Guio*

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. Polisca*, *G. Bilotti*

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 Institute 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 CRC 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**


**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. Filatova\(^9\), F. Schlütz\(^1, 2\)

\(^1\)Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, \(^2\)Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, \(^3\)CRC 1266, Kiel University, Kiel, Germany, \(^4\)Institute for Ecosystem Research, Kiel University, Kiel, Germany, \(^5\)Botanical Institute, Kiel University, Kiel, Germany, \(^6\)MPI for Evolutionary Biology, Plön, Germany, \(^7\)Institute of Clinical Molecular Biology, Kiel University, Kiel, Germany, \(^8\)Environmental Philosophy and Ethics, Kiel, Germany, \(^9\)Archaeology 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. Bellini¹,², K. Schrieber¹, A. Erfmeier¹,²

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. Goslar², A. Matuszewska²

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. Martin²,³, L. Angulo-Lopez¹, I. Baly¹, F. Antolín⁴,⁵, H. Oliveira⁶

¹UMR 7209 AASPE, Muséum national d’Histoire naturelle, Paris, France, ²Laboratory of Prehistoric Archaeology and Anthropology, University of Geneva, Geneva, Switzerland, ³Department of Prehistory, Université de 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, E. Herrscher, F. Schlütz, W. Kirleis

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

11:10 Discussion

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

J. Lechterbeck, T. Kerig, A. Bevan

1 Museum of Archaeology, University of Stavanger, Stavanger, Norway, 2 Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, 3 CRC 1266, Kiel University, Kiel, Germany, 4 Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, 5 Institute 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, S. König, J. Schneeweß, F. Bittmann, W. Kirleis

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

12:00 Lunch break

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

B. Claassen, S. Filatova, B. Krause-Kyora, W. Kirleis, E. Holtgrewe-Stukenbrock

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

**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 Gordineşti II–Stînca goală settlement from the late 4th millennium BC (Northern Moldova). Case study

M. Rybicka¹, D. Król¹, P. Kitteľ², G. Sirbu³, M. Makohonienko¹, M. Słowinski⁵, A. Wacnik⁶, M. Głowacz¹, 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. Leszczyński 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. Perșoiu¹ ², A. Feurdean³, I. Perșoiu³

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. Eckel*, *J. Blöcher*, *J. Burger*, *Y. Diekmann*  
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 millenium 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. Nørtoft*, A. B. Rohrlach  
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. Johanssen*  
Department of Archaeology and Heritage Studies, Aarhus University, Höjbjerg, Denmark

09:10 **Discussion**

09:20 **The impact of steppe dispersals in Luxembourg: an archaeo-genetic 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 Brânceni Noi (Republic of Moldova). Interdisciplinary approaches

Diaconu, V.*, Simalcsik, A.2, Florescu, G.3, Mistreanu, E.4

1Neamţ 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. Taylor¹, ², J. Kneisel¹, ², ³, C. Rinne¹, J. P. Brozio¹, 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. Schultrich¹, ², J. An¹, ², L. Shatilo¹, ², R. Grossmann¹, 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. Engelbogen¹, ², O. Nakoinz², ³, ⁴, G. Günther³, ⁵, H. Dietze⁶, C. Zeviani⁶, S. Stoddart⁶, S. Strohm¹, 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. Laabs¹, ², M. Wunderlich¹, ², ³, R. Hofmann¹, ², H. Piezonka¹, ², ³, P.-A. Kreuz², ³, ⁴, S. Sabnis¹, ², J. P. Brozio¹, ², C. Dickie¹, ², M. Furholt¹, 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
Understanding past transformations: Complex patterns, scales, and anatomies

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

A. Jerosch1, 2, J. Koschorke1, 3, S. Lindauer4, T. Scholten1, 3, P. Kühn1, 3, T. Knopf1, 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. Hofmann1, 2, L. Shatila1, 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. Rinne1, 2, N. Schwarck1, 3, R. Hoffmann1, 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. Brozio1, 2, J. Müller1, 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. Kneisel1, 2, 3, I. Feeser1, 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. Furholt1, 2, 3, I. Cheben4, M. Wunderlich1, 2, 3, K. Fuchs2, 3, 5, K. Szilágyi1, Z. Hukelova4, M. Ruttkay4, T. Kühl1, 3
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, *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. Feese*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. Feese*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
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\textsuperscript{1, 2, 3}, J. Schirrmacher\textsuperscript{1, 3}, J. Kneisel\textsuperscript{1, 2, 3}, R. Großmann\textsuperscript{1, 3}, M. Bunbury\textsuperscript{4}

\textsuperscript{1}Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, \textsuperscript{2}Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, \textsuperscript{3}CRC 1266, Kiel University, Kiel, Germany, \textsuperscript{4}James 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.\textsuperscript{1, 2}

\textsuperscript{1}Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, \textsuperscript{2}CRC 1266, Kiel University, Kiel, Germany

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

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

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

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

S. Strohm\textsuperscript{1, 2}

\textsuperscript{1}Department of Computer Science, Kiel University, Kiel, Germany, \textsuperscript{2}CRC 1266, Kiel University, Kiel, Germany

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

S. Sabnis\textsuperscript{1, 2}

\textsuperscript{1}Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, \textsuperscript{2}CRC 1266, Kiel University, Kiel, Germany
**Exploring plant food practices at a Late Bronze Age settlement in northern Germany**

*M. Oelbüttel*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

**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

**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

**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. Dreibrodt*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

**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

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

G. Günther¹, ²

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

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

J. Heil¹, ²

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

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

D. Moser¹, ², K. Fuchs¹, ², ³, F. Klimscha⁴, D. Jantzen⁵

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

Demography in Prehistoric Northern Europe: a computational perspective

G. Bilotti¹, ²

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

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

S. Detjens¹, S. Grimm¹, ², T. Wunderlich², ³, ⁴, B. V. Eriksen¹, 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

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

J.-E. Schlicht¹, 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 Silva¹, B. Krause-Kyora¹, 2, 3, A. Nebel¹, 2, 3, S. Schade-Lindig⁴, J. Wahl⁵, C. Berszin⁶, D. Krausse⁷, M. Francken⁷, I. Görner⁸, K. Schierhold⁹, J. Pechtl¹⁰, G. Grupe¹¹, A. Caliebe¹², J. Müller², 3, 13, S. Schreiber¹⁴

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. Wirth¹, 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. Hilpert1, 2, T. Kerig1, 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. Azzalin4, 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. Batalova2, E. Orlova2, M. Pereskokov2, V. Mingalev3, P. San-nikov2, F. Schlütz4, 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

52 KIEL CONFERENCE
Climbing the ladder? Social dynamics of mining communities in medieval Central Europe

P. Cembrzyński¹,²

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

Discussion

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. Schmölcke¹,²,³

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

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

Discussion

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

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. Majchczack¹,², H. Hadler³, D. Wilken¹,², ⁴, S. Bäumler⁶, D. Bienen-Scholt⁶, R. Blankenfeldt⁷, B. Grimm³, S. Klooß⁸, A. Reiß³, W. Rabbel², 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 Hooge, Hallig Hooge, 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. Dörfler¹,²,³

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. Wilkes¹,², H. Skorna¹,²
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, 4, 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. Kim1, 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. Ribeiro1, 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

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**Coffee break**

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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 Zoshk*, ¹, *S. Baghizadeh*,², *H. Afshari*³  
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


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. Nakoinz¹, 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. 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

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. Bergsdóttir1, 2
1Faculty of Sociology, Anthropology, and Folkloristics, University of Iceland, Reykjavík, 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. Wilken2, 3, T. Willershäuser1, T. Wunderlich2, 4, 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
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. Rabbel³, ⁴, ⁵, S. Krastel³, B. V. Eriksen¹, 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

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

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

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. Lübke³, 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

Coffee break
10:30  **Resurfacing Doggerland: from finds to narratives**  
*H. Peeters¹, L. Amkreutz², 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. Gralak
Institute of Archaeology, University of Wroclaw, Wroclaw, 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. Beaunean1, 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. Brönnimann1,2,3, S. Joray2, Ö. Akeret1, C. Alder1, S. Deschler-Erb1, T. Doppler4, M. Kühn1, C. Maize4, 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. Dalle1,3, M. Hlad1,2, C. Sabaux2,3, K. Salesse4, A. Sengelov2,3, E. Stamataki1,2, B. Veselka1, M. Boudin2, M. Vercauteren2, G. De Mulder4
1Chemistry & Archaeology, Free University of Brussels, Brussels, Belgium, 2Anthropology, Free University of Brussels, Brussels, Belgium, 3Archeology, 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. Scalise*¹, *M. P. Morigi*², ³, *C. Cavazzuti*⁴, ⁵, *R. Brancaccio*², ³, *M. Seracini*², ³, *S. Stoddart*¹, *S. Benazzi*⁶, 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. Tõrv, 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. Allentoft²–³, 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. Saag¹–², L. Varul³, S. V. Vasilyev⁴, M. Törv⁵, C. L. Scheib²–⁵, E. Willerslev⁶–⁶, T. Kivisild²–⁷, 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. Schmölcke¹, 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. Meadows¹, ², ³, A. Fischer⁴
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 ressource 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. Hyland¹, R. Schulting¹, A. Weber², A. Styring¹
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. Scott¹, A. Boethius³, R. Macdonald⁴, M. Richards³, A. Styring¹
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


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. Brunner1, 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. Laabs1, 2, G. Bilotti1, 2, J. P. Brozio1, 2, M. Bunbury3, I. Feeser1, 2, 4, J. Winther Johannsen5, T. Kerig1, 2, 4, J. Kneisel1, 2, 4, J. Marzian6, J. Müller1, 2, 4, A. Ribeiro1, 2, S. Schaefer-Di Maida1, 2, S. Schultrich1, 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. Großmann1, 2, 3, M. Weinelt1, 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. Tkáč¹, 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. Laabs³, 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. Chkhatarashvili²
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 Museu, 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, southwestern Iran (HighStepLands)

D. Moscone¹, B. Ögüt¹, ², A. Azadi², M. Zarekhalili¹, N. Dopp¹, A. Ricci¹, 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. Gronenborn2,3
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. Jia1,2,3, E. Skourtanioti1,2, L. Bejko4, I. Pojani4, H. Ringbauer1,2, J. Krause1,2, P. W. Stockhammer1,2,3
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. Griffith1, 2, H. F. James1, 2, C. Cheung1, 2, B. Veselka1, 2, H.-Y. Tran3, H. Gregoir3, 4, C. Snoeck1, 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. Macāne1, 2, K. Nordqvist1
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
From Coast to Coast - Evidence for Baltic soldiers in the Classical period Mediterranean

A. Mittnik1, 2, 3, F. Mollo4, M. Lucci5, A. Nava6, A. Coppa2, 6, 7, L. J. Reitsema8, B. Kyle9, D. Caramelli10, R. Pinhasi11, D. Reich2, 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. Sjörgen, 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. Kristiansen1,4, 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. Kolár2, 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. Dumont1, 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. Gavranović2, M. Mehofer2, 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. Griebl, 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. Ricci1, 2, B. Jalilov3, E. Erkul4, S. Fiori1, 2, J. Kneisel1, 2, 5, N. Laneri6, S. L. Fischer4, D. Wilken2, 4, 5, W. Rabbel2, 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. Shatilo1, 2, R. Hofmann1, 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. Petscho1
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. Müller², 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. Niebieszczański³, P. Makarowicz¹**  
¹Faculty of Archaeology, Adam Mickiewicz University, Poznań, Poland, ²Institute of Archaeology, Ukrainian National Academy Of Sciences, Kyiv, 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. Fiori¹, 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. Kneisel¹, 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. Włodarczok³, 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. Finné1, 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. Schirrmacher1, 2, N. J. Almeida3, H.-P. Stika4, M. Weinelt1, 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. Hostettler1, 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. Pereskokov2, V. Mingalev3, L. Shumilovskikh4
1Georg-August-University of Göttingen, Göttingen, Germany, 2Perm State University, Perm, Russian Federation, 3Higher School of Economics, Perm, Russian Federation
Cultivation under uncertainty - the interplay of social and ecological factors in prehistoric and ancient agriculture

11:10  Discussion

11:20  Exploring social and environmental factors that shaped the crop choice at a Younger Bronze Age settlement in northeastern Germany

M. Oelbüttel1, 2, D. Filipović1, 2, 3, W. Kirleis1, 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. Makarewicz1, 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. Ptákova1, V. Komárková1, M. Hajnalová2, T. Šálková2, 3, A. Pokorná4, M. Pták3, J. Bumerl1, V. Vondrovskaý4
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 Ukranian 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. Mesterházy¹, 2, A. Füzesi¹, 3, K. Szilágyi⁴, E. Bánffy⁵, K. Rassmann⁶, G. Serlegi², P. Raczy¹
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-Fazekas¹, 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, Vácérútó, 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*, M. Birclin3, A. Medović4, M. Furholt5, I. Medović5, K. Szilágyi2, R. Hofmann2

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. Lazar*, J. Müller2,3,4, T. Ignat5, R. Hofmann2

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. Ilie*, M. Golea

1Princely 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. Opriș1, C. Covâtaru2, 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. Covâtaru1, V. Parnic2, C. Hâită3, 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. Ş. 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-Lajtárd4*  
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 (5h millennium BC, Romania): a study on stable isotopes**  
*A. García-Vázquez1, A. Bălășescu2, G. Vasile2, M. Golea3, V. Radu1, 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-Gumelnita-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. Opriș3, M. Voicu2, C. Haită2, A. Bălășescu4, V. Radu4, M. Golea5, B. Monea5, C. Covățaru6, C. Stal7, J. Muller7, 8, 9, R. Hofmann7, 9, W. Kirleis7, 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, 4Vasile 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. Hanganu1, 2, A. Vespremeanu-Stroe1, L. Preoteasa3, L. Ţuţuianu1, 2, C. Covățaru4, 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. Dreibrodt1, 2, 3, F. Schlütz3, 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. Ignat¹, ³, M. Florea¹, 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. Covătaru⁴, T. Ignat⁴, V. Opris⁵, 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

16:50 **Life in the floodplain: Multidisciplinary research on the Copper Age Tell Chiselet in the Lower Danube Basin**

R. Hofmann¹, ², S. Dreibrodt², ³, ⁴, M. Zolchow², ³, ⁵, A. Balasescu⁶, V. Radu⁷, C. Stal⁸, T. Ignat⁸, F. Schlütz¹, ², ³, ⁴, C. Covătaru¹⁰, C. Lazar¹⁰, W. Kirleis¹, ², ⁴, W. Rabbel², ³, ⁴, ⁵, ⁶ J. Müller¹, 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. Zolchow¹, ², N. Pickartz³, A. Serbanescu⁴, D. Köhni, E. Erkul, S. Dreibrodt², ³, ⁵, ⁶, R. Hofmann², ³, ⁷, J. Müller², ³, ⁴, ⁵, ⁶, ⁷, C. Lazar⁴, W. Rabbel², ³, ⁴, 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 Mostiştea River Valley, Romania during the Eneolithic through Strontium Isotopic Analyses of Plants and Human Tooth Enamel

A. Tafani1, 2, C. Snoeck3, E. Greco4, R. H. Tykot1, C. Covătaru2, T. Ignat2, 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. Verdianu1, 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. Brönnimann1, 2, 3, J. Wimmer3, B. Stopp1, M. Müller-Kissing4, H. Rissanen3, N. Spichtig5, P. Rentzel6
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. Houal9, H. Brückner9, F. Reize4, E. Erkul4, W. Rabbel4, 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. Schneeweß1, 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
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. Windle1,2, A. Lemke3, H. Piezonka1,2,4
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
Modeling cultural landscapes through the entanglement of human and non-human agents

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. Bork¹,²,³, 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. Țuțuianu1,3, D. Hanganu1,3, 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. Radu1,2, 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. Wilken2,3,4, B. Majchczack4,5, R. Blankenfeldt6, S. Klooss7, S. Bäumler2,3, C. von Carnap-Bornheim4,5,6, U. Ickerodt7, W. Rabbel2,3,5, 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. Campana⁴
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

Scales of Social, Environmental & Cultural Change in Past Societies 97
POSTER SESSION

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. Martinez-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. Müller⁴, 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-Padrós
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-Pádros
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 Wroclaw, Wroclaw, 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 León1, 2

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