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 interdisciplinary 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

Main entrance
PRACTICAL INFORMATION

WORKSHOP VENUES

Central venue
Leibnizstr. 1, 24118 Kiel

Icebreaker
Juridicum
Leibnizstr. 2, 24118 Kiel

Conference Dinner
Steigenberger Conti Hansa Hotel
Schloßgarten 7, 24103 Kiel

Bus excursion meeting point
Leibnizstr. 1, 24118 Kiel

GENERAL INFORMATION

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

WiFi Access
Please ask at the registration desk

Childcare
Olshausenstr. 80i (Container)

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

Kiel University

Workshop

Kunsthalle zu Kiel (Antiquities Collection)
Düsternbrooker Weg 1
24105 Kiel

Steigenberger Conti Hansa HOTEL, Kiel
Schloßgarten 7, 24103 Kiel

Kiel Main Station
<table>
<thead>
<tr>
<th>Time</th>
<th>Monday, 13 March</th>
<th>Tuesday, 14 March</th>
<th>Wednesday, 15 March</th>
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**Excursions**

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- 20:00-20:30
- 20:30-21:00

**Central Keynote**

- 17:30-18:00

**Final Plenary Meeting**

- 17:30-18:00

**25th Anniversary of the Journal of Neolithic Archaeology**
Monday, 13 March

15:30 – 17:30

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

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

SESSION 41
Stone Age seafaring and early maritime societies
ROOM 207

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

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

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

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

18:00 – 19:00

CENTRAL KEYNOTE
L. Sanjuán
## Tuesday, 14 March

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:30 – 10:00</td>
<td>Mobility and exchange in the Late Neolithic and Bronze Age – Raw materials, networks, innovations (ROOM 209)</td>
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<tr>
<td>10:30 – 12:00</td>
<td>Through the flames and into the grave – multidisciplinary research into past and present cremation practices and burials (SESSION 23)</td>
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<tr>
<td>13:30 – 15:00</td>
<td>Between over-exploitation and sustainability: Extraction of resources as a driver for societal change and inequality (SESSION 16)</td>
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<tr>
<td>15:30 – 17:30</td>
<td>On course to drowned landscapes of the North Sea – cultural aspects, preservation potential and geoscientific challenges (SESSION 22)</td>
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<tr>
<td>18:00 – 19:00</td>
<td>Tellscape: New insights into the human multiple land-use and impact on the environment in the European Neolithic (SESSION 36)</td>
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### Sessions

1. **SESSION 1**: Mobility and exchange in the Late Neolithic and Bronze Age – Raw materials, networks, innovations
   - **Room**: 209

2. **SESSION 2**: Beyond Gender transformations? Archaeological context and intersectionality
   - **Room**: 207

3. **SESSION 22**: On course to drowned landscapes of the North Sea – cultural aspects, preservation potential and geoscientific challenges
   - **Room**: 204

4. **SESSION 23**: Through the flames and into the grave – multidisciplinary research into past and present cremation practices and burials
   - **Room**: 209

   - **Room**: 204

6. **SESSION 29**: Macro-scale patterns in European prehistory 6000-1000 BCE
   - **Room**: 105

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

8. **SESSION 1**: Mobility and exchange in the Late Neolithic and Bronze Age – Raw materials, networks, innovations
   - **Room**: 209

9. **SESSION 2**: Beyond Gender transformations? Archaeological context and intersectionality
   - **Room**: 207

10. **SESSION 22**: On course to drowned landscapes of the North Sea – cultural aspects, preservation potential and geoscientific challenges
    - **Room**: 204

11. **SESSION 23**: Through the flames and into the grave – multidisciplinary research into past and present cremation practices and burials
    - **Room**: 209

    - **Room**: 204

13. **SESSION 29**: Macro-scale patterns in European prehistory 6000-1000 BCE
    - **Room**: 105

14. **SESSION 36**: Tellscape: New insights into the human multiple land-use and impact on the environment in the European Neolithic
    - **Room**: Lecture hall
Thursday, 16 March

8:30 – 10:00
SESSION 34
Barrows as records of human activities materials, networks, innovations
ROOM 209

10:30 – 12:00
SESSION 31
Innovations in the Urnfield Culture
ROOM 208

13:30 – 15:00
SESSION 42
Scales of Transformation: the power of material minds
ROOM 207

15:30 – 17:30
SESSION 6
Household archaeology: new answers for old questions. Multi-analytical and multi-scalar approaches to prehistoric domestic structures
ROOM 204

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

18:00 – 19:00
SESSION 5+15
Comparing Scales and Transformation in Population Dynamics: Old and New Challenges
ROOM 106

SESSION 13
Scales of mobility in 3rd millennium BC Europe
ROOM 105

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

SESSION 9
ROOTS Past-Present Connectivities Essay Competition

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

CENTRAL KEYNOTE
C. Metzner-Nebelsick
# Friday, 17 March

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<th>Time</th>
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<td>8:30 – 10:00</td>
<td>SESSION 14</td>
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<td>Understanding past transformations: Complex patterns, scales, and anatomies</td>
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<td>10:30 – 12:00</td>
<td>SESSION 4</td>
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<td>Museums and university collections in the field of tension of current social discourses</td>
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<td>13:30 – 15:00</td>
<td>SESSION 27</td>
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<td>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</td>
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<td>Why do people discard? Questioning the relationship between valuation and behaviour</td>
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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.
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. Pereskolokov3, V. Mingalev3, L. Shumilovskikh1
1Georg-August-University of Göttingen, Göttingen, Germany, 2Perm State University, Perm, Russian Federation, 3Higher School of Economics, Perm, Russian Federation

Scales of Social, Environmental & Cultural Change in Past Societies
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. Oelbüttel\textsuperscript{1, 2}, D. Filipović\textsuperscript{1, 2, 3}, W. Kirleis\textsuperscript{1, 2, 3}

\textsuperscript{1}Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, \textsuperscript{2}CRC 1266, Kiel University, Kiel, Germany, \textsuperscript{3}Cluster 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. Trentacoste\textsuperscript{1}, C. Makarewicz\textsuperscript{1, 2, 3}

\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

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. Ptáková\textsuperscript{1}, V. Komárková\textsuperscript{1}, M. Hajnalová\textsuperscript{1, 2}, T. Šálková\textsuperscript{1, 2, 3}, A. Pokorná\textsuperscript{4}, M. Pták\textsuperscript{3}, J. Bumerl\textsuperscript{1}, V. Vondrovský\textsuperscript{4}

\textsuperscript{1}Laboratory of Archaeobotany and Palaeoecology, University of South Bohemia, České Budějovice, Czech Republic, \textsuperscript{2}Department of Archaeology, Constantine the Philosopher University, Nitra, Slovakia, \textsuperscript{3}Department of Archaeology, University of South Bohemia, České Budějovice, Czech Republic, \textsuperscript{4}Institute 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
**Safer Space Policy**

The ROOTS and CRC 1266 are committed to ensure that all participants of the Kiel Conference experience a safe and hospitable environment, regardless of age, gender, sexual identity, disability, physical appearance, nationality, ethnicity, or religion. The ROOTS and CRC 1266 will not tolerate direct or indirect discrimination against any person on grounds of any of the above.

We ask all participants to respect the personal boundaries of others, whether they be physical, emotional or cultural. The ROOTS and CRC 1266 believe that people from different backgrounds can bring fresh ideas, thinking and approaches which will make our open workshop both innovative and effective. We support the right of all participants to be able to express their viewpoints without undue interruption. Constructive criticism and dissent are welcome, but should be focussed on the issue, not the person. Please consider the effect your own words and actions may have on others.

The ROOTS and CRC 1266 will not tolerate inappropriate, intimidating or offensive behaviour, whether verbal, written or physical, including harassment or unwarranted and unwelcome attention in any form.

Failure to abide by this policy will result in appropriate action being taken by the ROOTS and CRC 1266 or the conference organisers. If necessary local authorities will be informed.

Any behaviour during the Kiel Conference that contravenes this policy and that has affected you personally or that you have witnessed, should be reported immediately to the ROOTS and CRC 1266 office by email to kielconference2023@roots.uni-kiel.de, or by leaving a note with contact details at the reception desk. Any reports received will be handled by the ROOTS and CRC 1266 board and the organisers with the utmost confidentiality.