



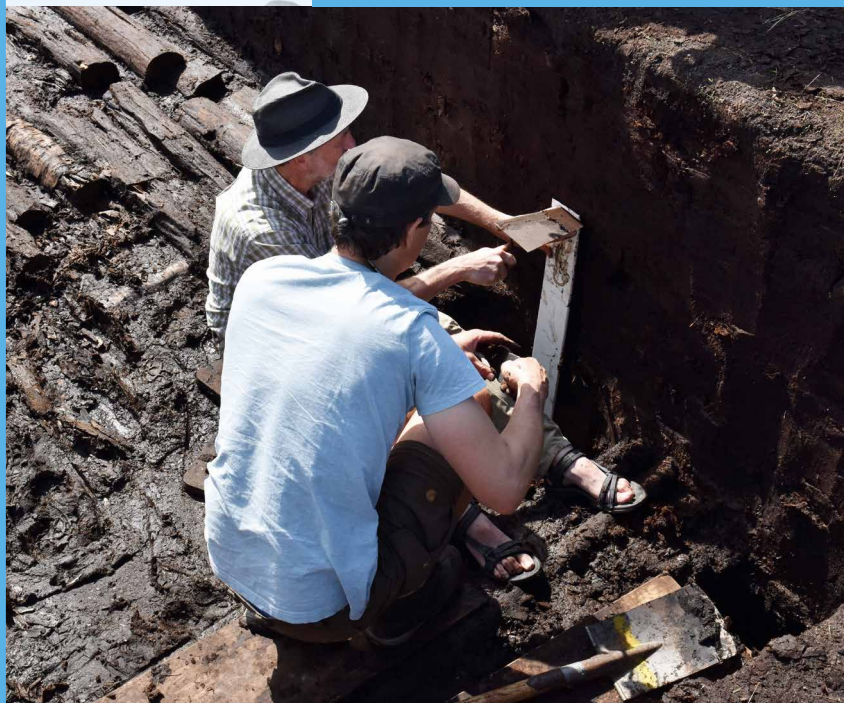
# KIEL CONFERENCE

13.-18.03.2023

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

## PROGRAMME

[www.kielconference.uni-kiel.de](http://www.kielconference.uni-kiel.de)



**ROOTS**  
cluster of excellence

  
CRC 1266  
SCALES OF TRANSFORMATION



# KIEL CONFERENCE

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

Kiel University, March 13 – 18, 2023

## PROGRAMME

### **Editing:**

Franziska Engelbogen, Nicole Taylor, Andrea Ricci

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[www.kielconference.uni-kiel.de](http://www.kielconference.uni-kiel.de)

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

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

## A warm welcome to Kiel!

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

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

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

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

I wish you an inspiring, fruitful time in Kiel.



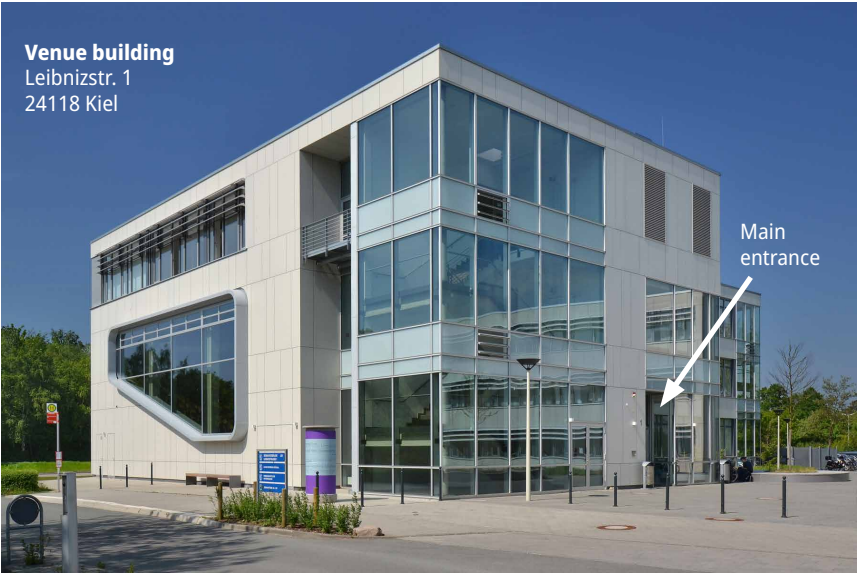
**Johannes Müller**

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

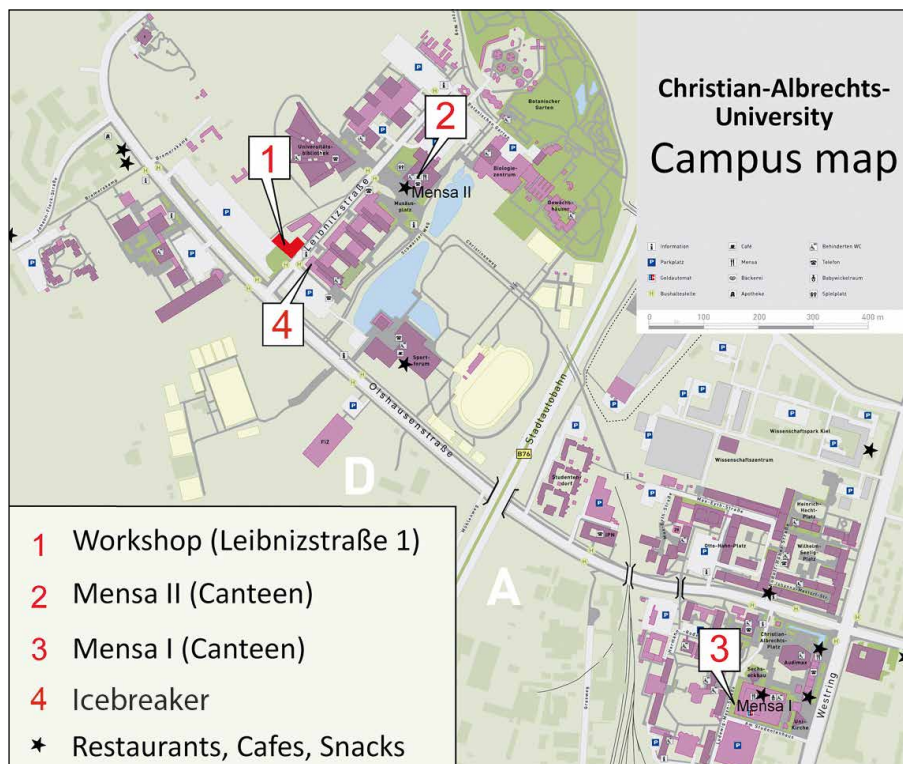


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## WORKSHOP VENUES

### 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

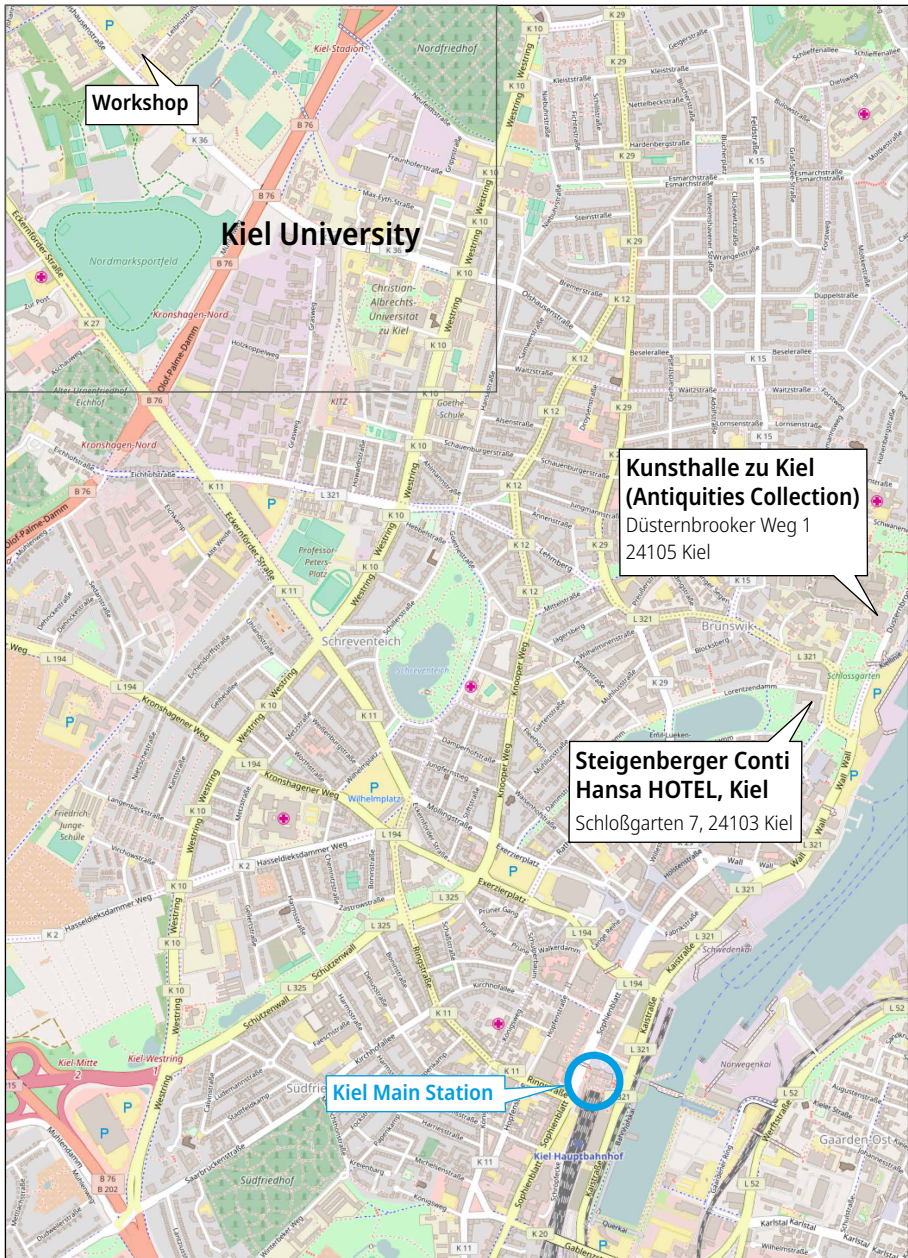
Olshausenstr. 80i (Container)

### Local transport











Taxi: +49 431 77070

Public transport: [www.kvg-kiel.de](http://www.kvg-kiel.de)

# CITY MAP










# WEEKLY OVERVIEW

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





## WEEKLY OVERVIEW

			<div>Excursions</div>	08:00-08:30
	<div>SESSION</div> <div>365+15</div> <div>203442</div>	<div>SESSION</div> <div>41314</div> <div>2737</div>		08:30-09:00
				09:00-09:30
	<div>SESSION</div> <div>365+15</div> <div>343842</div>	<div>SESSION</div> <div>41314</div> <div>2737</div>		09:30-10:00
				10:00-10:30
	<div>SESSION</div> <div>91324</div> <div>313842</div>	<div>SESSION</div> <div>41437</div>		10:30-11:00
				11:00-11:30
	<div>SESSION</div> <div>91314</div> <div>243138</div>	<div>Central Keynote</div>		11:30-12:00
		<div>Final Plenary Meeting</div>		12:00-12:30
				12:30-13:00
				13:00-13:30
				13:30-14:00
				14:00-14:30
				14:30-15:00
			15:00-15:30	
			15:30-16:00	
			16:00-16:30	
			16:30-17:00	
			17:00-17:30	
			17:30-18:00	
	<div>Central Keynote</div>		18:00-18:30	
			18:30-19:00	
			19:00-19:30	
			19:30-20:00	
	<div>25th Anniversary of the Journal of Neolithic Archaeology</div>		20:00-20:30	
			20:30-21:00	

## Monday, 13 March

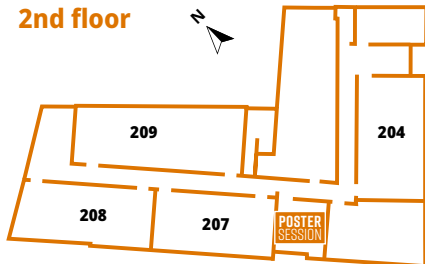


15:30 – 17:30

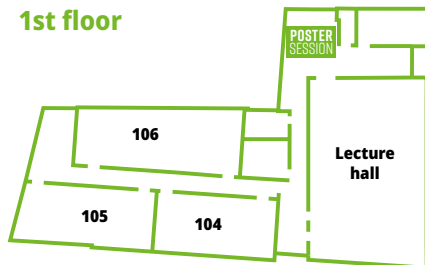
18:00 – 19:00

### FLOOR PLAN LEIBNIZSTRASSE 1

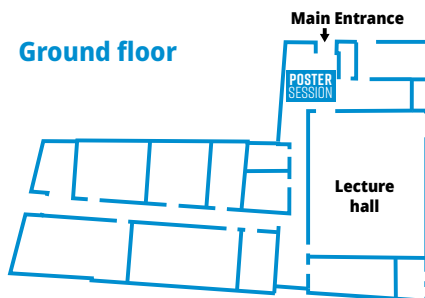
#### 2nd floor



#### 1st floor



#### Ground floor



ROOM 209

#### SESSION 1

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

ROOM 208

#### SESSION 17

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

ROOM 207

#### SESSION 41

Stone Age seafaring and early maritime societies

ROOM 204

#### SESSION 25+32

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

ROOM 106

#### SESSION 11

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

ROOM 105

#### SESSION 29

Macro-scale patterns in European prehistory 6000-1000 BCE

Lecture hall

#### SESSION 36

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

**CENTRAL KEYNOTE**  
L. Sanjuán

# DAILY OVERVIEW

## Tuesday, 14 March



8:30 – 10:00

10:30 – 12:00

13:30 – 15:00

15:30 – 17:30

18:00 – 19:00

ROOM 209

### SESSION 1

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

### SESSION 23

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

ROOM 208

### SESSION 16

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

ROOM 207

### SESSION 2

Beyond Gender transformations?  
Archaeological context and intersectionality

ROOM 204

### SESSION 25+32

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

### SESSION 22

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

ROOM 106

### SESSION 11

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

ROOM 105

### SESSION 29

Macro-scale patterns in European  
prehistory 6000-1000 BCE

### SESSION 8

Analog Modelling the Late  
Neolithic and the Early Bronze

Lecture hall

### SESSION 36

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

**CENTRAL  
KEYNOTE**  
D. Fuller

# DAILY OVERVIEW

## Wednesday, 15 March



8:30 – 10:00

10:30 – 12:00

13:30 – 15:00

15:30 – 17:30

18:00 – 19:00

ROOM 209

### SESSION 23

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

### SESS. 34

Barrows as records of human activities

ROOM 208

### SESSION 18

Prehistory of politics – politics of prehistory

### SESS. 20

De-escalation Strategies in Past Societies

ROOM 207

### SESSION 39

Waterscape: Humans, Environment, and Hydrology in the Holocene

ROOM 204

### SESSION 22

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

### SESSION 6

Household archaeology: new answers for old questions...

ROOM 106

### SESSION 5+15

Waterscape Dynamics - Chances and Challenges in Human-Water Interactions

ROOM 105

### SESSION 35

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

Lecture hall

### SESSION 3

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

POSTER SESSION



# DAILY OVERVIEW

## Thursday, 16 March



8:30 – 10:00

10:30 – 12:00

13:30 – 15:00

15:30 – 17:30

18:00 – 19:00

ROOM 209

### SESSION 34

Barrows as records of human activities materials, networks, innovations

### SESSION 31

Innovations in the Urnfield Culture

ROOM 208

### SESS. 20

De-escalation Strategies in Past Societies

### SESSION 38

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

ROOM 207

### SESSION 42

Scales of Transformation: the power of material minds

ROOM 204

### SESSION 6

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

### SESSION 24

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

ROOM 106

### SESSION 5+15

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

### SESSION 13

Scales of mobility in 3rd millennium BC Europe

ROOM 105

Lecture hall

### SESSION 3

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

### SESSION 9

ROOTS Past–Present Connectivities Essay Competition

### SESS. 14

Understanding past transformations: Complex patterns, scales, and anatomies

**CENTRAL KEYNOTE**  
C. Metzner-Nebelsick

# DAILY OVERVIEW

## Friday, 17 March



8:30 – 10:00

10:30 – 12:00

13:30 – 15:00

15:30 – 16:30

16:30 – 17:30

ROOM 209

### SESSION 4

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

ROOM 208

### SESSION 27

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

ROOM 207

ROOM 204

### SESSION 37

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

ROOM 106

### SESSION 13

Scales of mobility in 3rd millennium BC Europe

ROOM 105

Lecture hall

### SESSION 14

Understanding past transformations: Complex patterns, scales, and anatomies

**CENTRAL KEYNOTE**  
K. Kristiansen

**FINAL PLENARY MEETING**

## Saturday, 18 March

### EXCURSION I: "Antiquities Collection Kiel"

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

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

### EXCURSION II: "Prehistoric Sites in 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 Bredenkamp and Brekendorf to Busdorf/Schleswig, and via Missunde and Kosel to Karlsmünde 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. Weiberg<sup>1</sup>, M. Finné<sup>1, 2</sup>

<sup>1</sup>Department of Archaeology and Ancient History, Uppsala University, Uppsala, Sweden, <sup>2</sup>Department of Human Geography, Uppsala University, Uppsala, Sweden

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

J. Schirrmacher<sup>1, 2</sup>, N. J. Almeida<sup>3</sup>, H.-P. Stika<sup>4</sup>, M. Weinelt<sup>1, 2, 5</sup>

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

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

M. Hostettler<sup>1, 2</sup>

<sup>1</sup>Institute of Archaeological Sciences, University of Bern, Bern, Switzerland, <sup>2</sup>Institute 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. Batalova<sup>1</sup>, P. Sannikov<sup>2</sup>, E. Orlova<sup>2</sup>, M. Pereskakov<sup>2</sup>, V. Mingalev<sup>3</sup>, L. Shumilovskikh<sup>1</sup>

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



**11:10 Discussion****11:20 Exploring social and environmental factors that shaped the crop choice at a Younger Bronze Age settlement in north-eastern Germany***M. Oelbüttel<sup>1, 2</sup>, D. Filipović<sup>1, 2, 3</sup>, W. Kirleis<sup>1, 2, 3</sup>*<sup>1</sup>Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, <sup>2</sup>CRC 1266, Kiel University, Kiel, Germany, <sup>3</sup>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<sup>1</sup>, C. Makarewicz<sup>1, 2, 3</sup>*<sup>1</sup>Institute of Prehistoric and Protohistoric Archaeology, Kiel University, Kiel, Germany, <sup>2</sup>Cluster of Excellence ROOTS, Kiel University, Kiel, Germany, <sup>3</sup>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<sup>1</sup>, V. Komárková<sup>1</sup>, M. Hajnalová<sup>2</sup>, T. Šálková<sup>1, 3</sup>, A. Pokorná<sup>4</sup>, M. Pták<sup>3</sup>, J. Bumerl<sup>1</sup>, V. Vondrovský<sup>4</sup>*<sup>1</sup>Laboratory of Archaeobotany and Palaeoecology, University of South Bohemia, České Budějovice, Czech Republic, <sup>2</sup>Department of Archaeology, Constantine the Philosopher University, Nitra, Slovakia,<sup>3</sup>Department of Archaeology, University of South Bohemia, České Budějovice, Czech Republic, <sup>4</sup>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. Dannemann<sup>1</sup>, P. Avramidis<sup>2</sup>, A. Emmanouilidis<sup>1</sup>, J.-M. Henke<sup>3</sup>, C. Piechocki<sup>1</sup>, I. Unkel<sup>4</sup>*

<sup>1</sup>Institute for Ecosystem Research, Kiel University, Kiel, Germany, <sup>2</sup>University of Patras, Patras, Greece,

<sup>3</sup>DAI Athen, Athen, Greece, <sup>4</sup>University 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](mailto: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.

