OPEN WORKSHOP
KIEL, 15-18 APRIL, 2013

SOCIO-ENVIRONMENTAL DYNAMICS
OVER THE LAST 12,000 YEARS:
THE CREATION OF LANDSCAPES III

PROGRAMME
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Session 1 | From Lateglacial Forestation to Holocene Drowning  
Session 2 | Civilizations, Rivers and Their Floodplains Throughout the Holocene  
Session 3 | Human Exploitation of Aquatic Landscapes  
Session 5 | Wood and Charcoal: Socio-Economic Constraints of a Resource and Environmental Indications of a Proxy  
Session 6 | Into New Landscapes: Subsistence Adaptation and Social Change During the Neolithic Expansion in Central and Western Anatolia  
Session 7 | Between Site and Synthesis: Missing Landscapes of the Southwest Asian Early Neolithic  
Session 8 | Experiencing Mobility: Movements of People and Objects in the Ancient Near East in the 1st Millennium BC  
Session 9 | Transitional Landscapes? Spatial Patterns, Standardised Burials, and Intensified Communication in the 3rd Millennium BC in Europe: the Globular Amphora, Corded Ware, and Bell Beaker Complexes in Context  
Session 10 | “Setting the Bronze Age Table”: Production, Subsistence, Diet and Their Implications for European Landscapes  
Session 12 | Social and Environmental Change in Pre-Hispanic Latin America  
Session 13-14 | Joint Session: Modelling Interaction and Data Management  
Session 15 | The Archaeology of Pollution
**Registration:** Leibnizstraße 1, Foyer of the seminar building

**Workshop Public Lectures:** Klaus-Murmann Lecture Hall, Leibnizstraße 1,

**Workshop Sessions:** Leibnizstraße 1, Seminar building

**Exhibition Opening Venue:** Antikensammlung-Kunsthalle Kiel, Düsternbrooker Weg 1, 24105 Kiel

**Ice breaker Venue:** Antikensammlung-Kunsthalle Kiel, Düsternbrooker Weg 1, 24105 Kiel

**Conference Dinner Venue:** Kieler Schloß, Dänische Str. 44, 24103 Kiel
Plan: Created by the Press Office of the Kiel University, edited for the Open Workshop by F. Bauer
Monday 15\textsuperscript{th} of April

**REGISTRATION**
10.00 | Registration at the foyer of seminar building  
Venue: Leibnizstraße 1

**WELCOME / INTRODUCTION**  
Venue: Leibnizstraße 1, Klaus-Murmann Lecture Hall

13.00 | Thomas Bosch, Vice-President of the Kiel University  
13.10 | Johannes Müller, Speaker of the Graduate School “Human Development in Landscapes”, Kiel University

**PUBLIC LECTURES: KEYNOTE SPEAKERS**  
Venue: Leibnizstraße 1, Klaus-Murmann Lecture Hall

13.15 | Daniel Sandweiss, University of Maine  
*Long-term Human Ecodynamics in the Heartland of El Niño: Climate and Culture on the Coast of Peru*

14.00 | Cheryl Makarewicz, Kiel University  
*Free from Hearth and Home: Neolithic Taskscapes and the Emergence of Non-Kinship Social Institutions in the Near East*

14.45 – 15.15 Coffee break

15.15 | Leendert Louwe Kooijmans, Leiden University  
*Digging in the Dutch Mountains*

16.00 | Albert Hafner, Bern University  
*Landscapes above the Treeline. Archaeological Evidence from Prehistoric Sites in the Swiss Alps*

16.45 | Engdawork Assefa\textsuperscript{1}, Hans-Rudolf Bork\textsuperscript{2}, Johannes Müller\textsuperscript{2}, \textsuperscript{1}Addis Abeba University, \textsuperscript{2}Kiel University  
*Terraces and Black Smiths in Southern Ethiopia: Environmental and Ethnoarchaeological Approaches*

**SOCIAL ACTIVITIES**  
Venue: Kunsthalle, Düsternbrooker Weg 1, 24105 Kiel

18.30 | Exhibition Opening (in German):  
*Manipulierte Landschaften: 10,000 Jahre Veränderung*

20.00 | Workshop Ice breaker
SESSION 1
LATEGLACIAL FORESTATION TO HOLOCENE DROWNING

*Presenting authors, if more than one author are listed

Tuesday 16th of April

9.00 | Heikki Seppä, University of Helsinki
Integrated Records of Biome Changes during the Last Glacial-Interglacial Transition in Europe (Invited)

9.30 | Sonja B. Grimm¹, Mara-Julia Weber²*,
¹MONREPOS, RGZM Archaeological Research Institute,
²Centre for Baltic and Scandinavian Archaeology
It is not Strength but the Duration (...) that Makes Great Men – Mid-Lateglacial Environmental Events and their Impact on Hunter-Gatherer Societies in Western Central Europe

10.00 | Håkon Glørstad, University of Oslo
Deglaciation, Sea Level Changes and the Holocene Colonisation of Norway

10.30 – 11.00 Coffee break

11.00 | Nicky Milner, University of York
Hunter Gatherers and Climate Change from 10,000 – 8000 BC: A Changing Lakescape in the Vale of Pickering, UK (Invited)

11.30 | Monika Žemantauskaitė, Lithuanian Institute of History
Palaeolithic and Mesolithic in the Territory of Lithuania: Current State of Research

12.00 | Daniel Groß*, Ulrich Schmölcke*, both Centre for Baltic and Scandinavian Archaeology, Schleswig
Reconstructing Local Environments – the Early Holocene Friesack Example

12.30 – 14.00 Lunch break

14.00 | Hans Ahlgren, Stockholm University
Of Hares and Men – Ancient DNA Analysis Indicates Mesolithic Translocation of Wild Animals to a Remote Island in the Baltic Sea

14.30 | Niklas Hausmann, University of York
Duvensee 13 - A Reevaluation

15.00 | Svea Mahlstedt, Wildeshausen
Land Use in Mesolithic Northwestern Germany

15.30 – 16.00 Coffee break

16.00 | Carmen Liebermann, Archeological Heritage Office Saxony
Hunter-Fisher-Gatherers in the South of the Northern Lowlands

16.30 | Julia Goldhammer, Akademie der Wissenschaften und der Literatur Mainz
Fished up from the Baltic Sea – A New Ertebølle Site near Stohl Cliff Line (Bay of Kiel)

17.00 | Harald Lübke*, Ulrich Schmölcke*, both Centre for Baltic and Scandinavian Archaeology
Mesolithic Hunter and Fisher in a Changing World – A Case Study on Late and Terminal Mesolithic Sites in Wismar Bay, Mecklenburg-Vorpommern, Germany
SESSION 2
CIVILIZATIONS, RIVERS AND THEIR FLOODPLAINS THROUGHOUT THE HOLOCENE

*Presenting authors, if more than one author are listed

Wednesday 17th of April

9.00 | Liviu Giosan, Woods Hole Oceanographic Institution
The Missing Link: Feedbacks Between Climate and People via Fluvial and Coastal Dynamics (Invited)

9.45 | Aline Garnier1, Eric Huyscom2, Chystel Jeanbourquin1*, Yann Le Drezen1, Laurent Lespez1, Serge Loukou2, 1University of Caen, 2University of Geneva, *University of Paris 1
Human Occupation and Paleoenvironment in Mali during the Last Two Millennia: Examples of the Guringin and the Yamé Rivers

10.05 | Sylvain Ozaine*1,2, Aziz Ballouche1, 1Université d’Angers, 2University of Geneva
Floodplains or Dune Fields? Environmental Settings of the First Food-Producing Cultures in West Africa

10.30 – 11.00 Coffee break

11.00 | Aziz Ballouche, Université d’Angers
Landscapes of the Lower Valley of the Oued Loukkos (Province of Larache, Morocco) since the Middle Ages. Paleoenvironmental Data and Historical Sources.

11.20 | Lydie Dudová, Institute of Botany ASCR, Brno
A Medieval Meadow Established in an Alder Alluvial Forest: A Case Study from the Eastern Sudetes

11.40 | Kristina Penezic*1, Dragana Filipovic2, Nenad Tasic1, 1University of Heidelberg, 2Oxford University, 3University of Belgrade
Landscapes and Lifestyles at Neolithic Vinča – Belo Brdo (5600 – 4200 BC), Serbia

12.00 | Peter Bisták1, Zuzana Borzová2, Ján Jahn3, Anna Smetanová*, 1Monuments Board of the Slovak Republic, 2University of Hildesheim, 3Department of Environmental Protection, Pennsylvania, *University of Hildesheim
The Valley of Connections and Divisions – Kostolianska Dolina Valley, Slovakia

12.30 – 14.00 Lunch break

14.00 | Stefanie Berg-Hobohm1, Jens Bussmann2, Eva Leitholdt*1, Andreas Stele3, Christoph Zießler1, 1Bavarian State Conservation Office, 2Osnabrueck University, Leipzig University
Fossa Carolina – Bridging the Central European Watershed

14.20 | Peter F. Biehl*1, Amy Boogard2, Ingmar Franz2, David Orton4, Sonia Ostapchouk5, Jana Rogasch6, Eva Rosenstock6, Philippa Ryan7, Patrick Willett1
1SUNY Buffalo; 2Oxford University, 3Freiburg University, 4Cambridge University, 5Musée Nationale d’Histoire Naturelle Paris, 6FU Berlin, 7British Museum
And a River Runs Through... Environmental and Cultural Change around 6,000 in the Konya Plain, Turkey

14.40 | Poster discussion

15.30 – 16.00 Coffee break

16.00 | Dorothy J. Merritts*, Michael Rahnis, Robert Walter, all Franklin & Marshall College
Late Quaternary Landscape Evolution and the Historic Rise and Fall of Mid-Atlantic US Streams (Invited)

16.45 | Tony G. Brown, University of Southampton
‘Natural’ Streams in Europe: An Eco-Historical Model

17.05 | Annegret Larsen1, Fabian Aschenbach2, Maren Jähne1, Joshua Larsen3, 1Kiel University, 2University of Queensland
The Legacy of Mill Dams in Low-Order Streams in Central Europe

Thursday 18th of April

09.00 | Rolf Aalto, Tim Barrows, Julia Marquard*, University of Exeter
Colonial Soil Loss Fingerprinted and Quantified over Multiple Timescales in the Christina River Basin (Pennsylvania, USA)

09.20 | Hans von Suchodoletz *,1,2, Martin Menz 1,3, Dominik Faust1, 1TU Dresden, 2University of Leipzig, 3Senckenberg Natural History Collection Dresden
The Holocene Fluvial Dynamics of the Marneul Depression in Eastern Georgia

09.40 | Dominik Faust*, Daniel Wolf, TU Dresden
Driving Forces of Holocene Fluvial Dynamics of the Guadalete River (SW-Andalusia)

10.00 | Hans-Rudolf Bork*1 and Christine Dahlke2, 1Kiel University, 2University of Hildesheim
Development of the River Yanjuangou near Yan’an (Shaanxi, China) during the Holocene

10.10 | Robert Walter*1, Dorothy Merritts, Jeffrey Hartranft2, Paul Mayer1, 1Franklin and Marshall College, 2Department of Environmental Protection, Pennsylvania, US Environmental Protection Agency
The Big Spring Run Stream Restoration Experiment: Watershed Restoration and Ecosystem Services in a Stream Impacted by Legacy Sediments

10.30 – 11.00 Coffee break

11.00 | Discussion: “Legacy Sediments”
SESSION 3

HUMAN EXPLOITATION OF AQUATIC LANDSCAPES

*Presenting authors, if more than one author are listed

Tuesday 16th of April

9.00 | Natalya Shishlina, State Historical Museum, Moscow
Eurasian Steppe Nomads and Exploitation of Aquatic Landscapes in the Bronze Age: Food, Trade and Mobility (Invited)

9.30 | Caroline Mougne*, Catherine Dupont, David Giazzon, Elven Le Goff, Cyril Marcigny, Université de Rennes, CNRS, INRAP
Marine Invertebrates at Bronze Age Settlements of the Normandy (North western France)

9.50 | Jennifer R. Jones*, Jacqui Mulville, both Cardiff University
Discontinuity and Change: Exploring the Role of Marine Resources of the North Atlantic Islands in Past Coastal Communities.

10.10 | Sofía Sanz, UAM Madrid
Aquatic Landscapes and Identity. Neolithic Process at Coasts of the Iberian

10.30 – 11.00 Coffee break

11.00 | Emuobosa Akpo Orijemie, University of Ibadan
Aspects of Human-Ecological Relations in Ahanve, Coastal Southwestern Nigeria

11.20 | Andrzej Pydyn, Nicolaus Copernicus University in Torun
Crossing the Cold Seas – The Use of Boats for Long Distance Mobility and Exploitation of Aquatic Resources

11.40 | Mateusz Popek, Nicolaus Copernicus University in Torun
Mesolithic Fishery on Polish Coast of the Baltic Sea

12.00 | Matthew Meredith-Williams, Geoff Bailey, Niklas Hausmann, Abdullah Alsharekh, University of York, King Saud University
Responses of Pre-Historic Coastal Communities to Sea Level Change in the Southern Red Sea

12.20 | Niklas Hausmann, University of York
Stable Isotope Research from Red Sea Shell Middens on the Farasan Islands, Saudi Arabia

Wednesday 17th of April

9.00 | James Barrett, Cambridge University
Changing Tides: The Archaeology and Historical Ecology of Medieval Sea Fishing (Invited)

9.30 | Valdis Bērziņš, Harald Lübbe, John Meadows, Ulrich Schmölcke, Ilya Zagorska, 1University of Latvia (LVI), 2Centre for Baltic and Scandinavian Archaeology (ZBSA), 3Leibniz-Labor für Altersbestimmung und Isotopenforschung, Kiel University, 4University of Latvia, Museum of Zoology.
Riņņukalns, Latvia: the Re-discovery of a Neolithic Freshwater Shell Midden

9.50 | Sanna Kivimäki, University of Helsinki
Increase of the Population and Decrease in the Residential Mobility – Logistical Organization of Fisher-Hunter-Gatherer Sites in the Northern Lake Saimaa Complex, Finland 4500 – 3500 cal BC

10.10 | Mikika Tallavaara*, Kristiina Mannermaa, Jukka Rintala, Pirkko Ukkonen, University of Helsinki, Finnish Game and Fisheries Research Institute, Helsinki
Hunter-Gatherer Population Dynamics and Aquatic Resource Use: A Case from Holocene Finland

10.30 – 11.00 Coffee break

11.00 | Gyti Piličiauskas, Lithuanian Institute of History, Vilnius
Exploitation of Freshwater Lagoons in Lithuania, 4000-1800 cal BC

11.20 | Bente Philippsen, Aarhus University
Inland Ertebølle Culture: the Importance of Aquatic Resources and the Freshwater Reservoir Effect

11.40 | Aikaterini Glykou, Oliver Craig, Kiel University, University of York
Exploitation of Marine Resources during the Mesolithic-Neolithic Transition at the Southwestern Baltic Sea Region

12.00 | Ricardo Fernandes, Marie-Josée Nadeau, Pieter M. Grootes, GS HDL, Kiel University, Leibniz Laboratory for Radiometric Dating and Isotope Research, Kiel University
Going Fishing in the Neolithic: Archaeological, Isotopic, and Radiocarbon Evidence

12.20 | Harry Kenneth Robson, Sören Andersen, Kurt Gron, BioArch, University of York, Moesgård Museum, University of Wisconsin-Madison
Isotopic Evidence of Environmental, Subsistence, and Cultural Changes across the Mesolithic-Neolithic Transition at Havnø, a Danish “Køkkenmødding”
Posters of session 3 exhibited during the whole workshop:

**Ricardo Fernandes**\(^*\), Marie-Josée Nadeau\(^2\), Pieter M. Grootes\(^3\), GS HDL, Kiel University, Leibniz Laboratory for Radiometric Dating and Isotope Research, Kiel

*Catholic Fasting Rules and Radiocarbon Dating*

**Ricardo Fernandes**\(^*\), Marie-Josée Nadeau\(^2\), Pieter M. Grootes\(^3\), Marek Brabec\(^4\), Andrew Millard\(^4\), GS HDL, Kiel University, Leibniz Laboratory for Radiometric Dating and Isotope Research, Kiel, Academy of Sciences of the Czech Republic, Durham University

*FRUITS for Fish: Intake Estimates of Aquatic Foods Using a Novel Bayesian Model*

**Ricardo Fernandes**\(^*\), Natalya Shishlina\(^3\), Ursula Brosseder\(^4\), Marie-Josée Nadeau\(^2\), Pieter M. Grootes\(^3\)

GS HDL, Kiel University, Leibniz Laboratory for Radiometric Dating and Isotope Research, Kiel University, Archaeology Department of the State Historical Museum, Moscow, University of Bonn

*Human Dietary Radiocarbon Reservoir Effects in the Eurasian Steppe*
SESSION 5
WOOD AND CHARCOAL: SOCIO-ECONOMICAL CONSTRAINTS OF A RESOURCE AND ENVIRONMENTAL INDICATIONS OF A PROXY

*Presenting authors, if more than one author are listed

Tuesday 16th of April

Session chair: Vincent Robin

9.00 | Thomas Ludemann, University of Freiburg
Landscape Anthracology – Linking Past Fuel Economy and Vegetation Ecology (Invited)

10.00 | Wiebke Kirleis¹, Hannes Knapp*, Oliver Nelle³, ¹Kiel University, ²Johannes Gutenberg University Mainz, ³Institut mediterranée de biodiversité et d’Ecologie marine et continentale
Charcoal Usage during the Middle Ages in the Harz Mountains – Wood Selection and Overexploitation of the Woodlands

10.30-11.00 Coffee break

Session chair: Doris Jansen

11.00 | Bert Groenewoudt, Cultural Heritage Agency of the Netherlands
Charcoal as a Proxy for Reconstructing Late Prehistoric and Early Historic Landscape Dynamics and Settlement Mobility

11.30 | Volker Arnold¹, Florian Gloza-Rausch¹, Oliver Nelle*, Arne Paysen¹, Björn-Henning Rickert⁵, ¹Museum for Archaeology and Ecology Dithmarschens, ²Noctalis Bat Center, *Institut mediterranée de biodiversité et d’Ecologie marine et continentale, ⁴Isentosamballerer, Historical Handicraft and Housework Technology, ⁵Kiel University
Historical Charcoal Production in Regions of the Northern European Plain: Resources, Woodland Reconstruction and Implications for Today’s Biodiversity Conservation.

12.00 | Alexandre Chevalier*, Jean Plumier², Nicolas Thomas³, Marie Verbeek⁵, ¹Royal Belgian Institute of Natural Sciences, ²Service de l’Archéologie, Service Public de Wallonie (SPW), ³Institut National de Recherches Archéologiques Préventives
Fuel Selection, Wood Exploitation and Forest Management by Middle Ages Belgian Brass Blacksmiths between the 13th and 16th Centuries along the Meuse River

12.30 – 14.00 Lunch break

Session chair: Thomas Ludemann

14.00 | Kirsti Hänninen¹, Welmoed Out*, Caroline Vermeeren¹, ³BIAX Consult, *, Spanish National Research Council (CSIC)
The Study of Woodland Management by Analysis of Branch Age and Diameter: Possibilities and Restrictions

14.30 | Doris Jansen, GS HDL, Kiel University
Charcoal Remains from the Königsgrab (Lüdelsen 6) in the Western Altmark

15.00 | Necmi Karul¹, Fevzi Kemal Moetz², Oliver Nelle¹, Tim Mattis Schröder*, ¹Istanbul University, ²Institut mediterranée de biodiversité et d’Ecologie marine et continentale, ³GS HDL, Kiel University
Aktopraklik and its Environments – An Integrated Botanical Approach

15.30 – 16.00 Coffee break

Session chair: Oliver Nelle

16.00 | Poster session:
Jan Novák*, Martin Novák², Jiři Svoboda², Petr Šída³, Jan Prostředník⁴, ¹University of South Bohemia, ²Institute of Archaeology, AČ ČR, ³University of Hradec Králové, ⁴Museum of the Bohemian Paradise
Vegetation Changes Recorded in Sandstone Rockshelters with Long Stratigraphic Sequences (Paleolithic - Medieval Period) in Northern Bohemia

Ralf Hesse, Landesamt für Denkmalpflege Baden-Württemberg
Charcoal Burning Platforms in the Southern Black Forest: from LIDAR Point Cloud to Spatial Patterns of Resource Use

16.30 | Jean-Louis Edouard¹, Mélanie Saulnier*, Brigitte Talon², ¹Center Camille Jullian, CNRS, ²Institut Méditerranéen de Biodiversité et d’Ecologie marine et continentale
Subalpine Forest History and Dynamics in the French Alps (Queyras): Climatic and Human Pressure

17.00 | Oliver Nelle¹, Vincent Robin*, ¹Institut mediterranée de biodiversité et d’Ecologie marine et continentale, ²Kiel University
Charcoal Records from Natural Archives in Northern Central Europe: What do They Tell us about Past Fire Regime Characteristics and Determinisms?

17:30 – 18:00
Final discussion
SESSION 6
INTO NEW LANDSCAPES: SUBSISTENCE ADAPTATION AND SOCIAL CHANGE DURING THE NEOLITHIC EXPANSION IN CENTRAL AND WESTERN ANATOLIA

Wednesday 17th of April

9.00 | Benjamin Arbuckle, Baylor University
Introduction and Welcome

9.10 | Sarah Kansa, Alexandria Archive Institute
Overview of Open Context Datasharing in Zooarchaeology (invited)

9.35 | Alfred Galik, Veterinary Medicine University, Vienna
Species Frequencies and Neolithic Farming Communities in Western Anatolia

10.00 | Benjamin Arbuckle, Baylor University
Sheep and Goat Management and the Spread of Pastoral Economies in Central and Western Anatolia: A Biometric Approach

10.30 – 11.00 Coffee break

11.00 | David Orton1 and Levent Atici2, 1University College London, 2University of Nevada Las Vegas
Sheep and Goat Management in Neolithic Anatolia: Epiphyseal Fusion and Dental Data

11.30 | Lionel Gourichon, Centre d’Études Préhistoire Moyen Age
Biometric Evidence for Early Cattle Management in Central and Western Anatolia

12.00 | Arek Marciniak1 and Benjamin Arbuckle2,
1Adam Mickiewicz University, 2Baylor University
Cattle Management in Neolithic Anatolia: Dental Eruption and Wear and Epiphyseal Fusion Evidence

12.30 – 14.00 Lunch break

14.00 | Canan Cakırlar, University of Groningen
Biometric Evidence for Pig (Sus scrofa) Exploitation in Central and Western Anatolia

14.30 | Jacqui Mulville, Cardiff University
Pig Management in Neolithic Anatolia: Epiphyseal Fusion and Dental Age Data

15.00 | Dragana Filipović, Oxford University
Arable and Pastoral Land-Use at Early-Mid Neolithic Çatalhöyük: The Archaeobotanical Evidence

15.30 | Friederike Stock, University of Cologne
First Settlements and their Environments along the Coasts of Central Western Anatolia

15.30 – 16.00 Coffee break

16.00
Final discussion
SESSION 7
BETWEEN SITE AND SYNTHESIS:
MISSING LANDSCAPES OF THE SOUTHWEST ASIAN EARLY NEOLITHIC

*Presenting authors, if more than one author are listed

Tuesday 16th of April

9.00 | Bill Finlayson, Council for British Research in the Levant, London
Creating the Neolithic World: The Social Integration of Neolithic Communities across Southwest Asian Landscapes

9.20 | Anna Belfer-Cohen*, A. Nigel Goring-Morris, both The Hebrew University of Jerusalem
When Environment Meets Culture – Case Studies from the Arid Region of Southern Levant (Invited)

9.50 | Matthew Jones1, Amaia Arranz Otaegui2, Tobias Richter2*, Lisa Yeomans1*, 1University of Nottingham, 2Universidad del País Vasco-Euskal Herriko Unibertsitatea, 3University of Copenhagen, 4Independent Scholar
Reconciling Social and Natural Landscape Approaches in the Late Epipalaeolithic: a Case Study from the East Jordanian Badia

10.10 | Douglas Baird, University of Liverpool
Boncuklu and Pınarbaşı. Variable Landscape Exploitation and Social Interaction in the Adoption and Rejection of Cultivation in the 9th–8th Millennia BC Central Anatolia

10.30 – 11.00 Coffee break

11.00 | Gary O. Rollefson, Whitman College
The Other Landscapes: Integrating the Hunting-Pastoral Exploitation of the Jordanian Badia with Neolithic Agricultural Communities (Invited)

11.30 | Michal Birkenfeld, The Hebrew University of Jerusalem
Pre-Pottery Neolithic B Settlement Systems in the Lower Galilee, Israel: A Multi-Scale Approach

11.50 | Matthew Kroot, University of Michigan
Property Rights and Subsistence Practices Across Neolithic Landscapes: The ‘Assal-Dhra’ Archaeological Project

12.10 | Daniel Contreras*, Cheryl Makarewicz, both Kiel University
Modeling Arable Landscapes of the Early Holocene: Emergent Cultivation at el-Hemmeh

12.30 – 14.00 Lunch break

14.00 | Bo Dahl Hermansen, Moritz Kinzel*, both University of Copenhagen
The Built Environment of the PPN – Changing Spaces for Changing Practices?

14.20 | Ceren Kabukcu, University of Liverpool
The Nature of Neolithic Impacts on the Environment: Early Holocene Oak Woodland Establishment and Spread in Inland SW Asia

14.40 | Amy Bogaard, University of Oxford
Locating Early Farming Landscapes in SW Asia and Europe Using Archaeobotanical Approaches

15.00 | Eleni Asouti, University of Liverpool
Memory, Hunter-Gatherer Knowledge Transmission Strategies and Environmental Change in Late Epipalaeolithic and Early Neolithic Southwest Asia

15.30 – 16.00 Coffee break

16.00 | Trevor Watkins, University of Edinburgh
Response and final discussion
PROGRAMME: SESSION 8

SESSION 8
EXPERIENCING MOBILITY:
MOVEMENTS OF PEOPLE AND OBJECTS
IN THE ANCIENT NEAR EAST IN THE 1ST MILLENNIUM BC

Wednesday 17th of April

9.00 | Introduction

Mobile People: Reality and Representation

9.05 | Charlotte Schubert, University of Leipzig
Nomads, Barbarians and Scythians: Idealisation and Cultural Difference (Invited)

9.35 | Silvia Balatti, GS HDL, Kiel University
Movements of People in Mountainous Environment: the Case of the Zagros in the 1st Millennium BC

10.05 | Harmen Huigens, University of Leiden
Set in Stone: Archaeological Remains of Mobile Societies in Jordan’s Black Desert

10.35 – 11.00 Coffee break

Movements of People and Knowledge

11.00 | Karen Radner, University College London
Brain Drain: Foreign Scholars at the Assyrian Imperial Court (Invited)

11.30 | Chiara Matarese, GS HDL, Kiel University
Greeks Working for the Achaemenid King: The Case of Persepolis

12.00 | Justine Walter, University of Leipzig
Serida and Da Xia: Central Asia’s Role in the Bi-directional Knowledge Transfer between Europe and China during the 1st Millennium BC

Thursday 18th of April

9.30 | Sabine Müller, Kiel University
Macedonians Abroad: Strategies of Commemorating Alexander’s Expansion

10.00 | Lutz Berger, Kiel University
Arab-Muslim Expansion in the 7th Century Fertile Crescent and Beyond: Causes and Repercussions

10.30 – 11.00 Coffee break

11.00 | Pierfrancesco Callieri, University of Bologna
Hellenistic Art on the Iranian Plateau: Movements of Objects, Movements of People (Invited)

11.30 | Sarah Kiyanrad, University of Heidelberg
The Voyage of a Dwarf God: Bes Amulets in the Achaemenid Empire

12.00 | Enrico Foietta, University of Torino
Four Inlaid Jewelry Pieces from Hatra. An Unusual Case of Study between Mesopotamia and the Caucasian Area

12.30 – 14:30 Lunch break

14:30 Final discussion
SESSION 9
TRANSITIONAL LANDSCAPES? SPATIAL PATTERNS, STANDARDISED BURIALS, AND INTENSIFIED COMMUNICATION IN THE THIRD MILLENNIUM CALBC IN EUROPE: GLOBULAR AMPHORAE, CORDED WARE AND BELL BEAKERS COMPLEXES IN CONTEXT

*Presenting authors, if more than one author are listed

Tuesday 16th of April

9.00 | Volker Heyd, University of Bristol
A European Union of Ideologies or the Cattle-isation of Europe? Globular Amphora, Corded Ware and Bell Beaker Pottery Users in an Interconnected Europe 3500 – 2000 BC (Invited)

9.30 | Florian Klimscha, DAI – Eurasia Department
Long-Range Contacts in the 3rd Millennium as Exemplified by Stone and Metal Weapons

10.00 | Martin Furholt, Kiel University
Multi-Dimensional Networks in the Late Neolithic: Uncovering Globular Amphorae, Corded Ware and Bell Beakers Linkages within Regional Contexts

10.30 – 11.00 Coffee break

11.00 | Jonas Beran, Archäologie Manufaktur GmbH
Empires and Revolutions in the Third Millennium. Supra Regional Rule and Extra Economic Compulsion as Causative Background of Wide Spread Cultural Phenomena

11.30 | Manfred Woidich, FU Berlin
Cultural Heterogeneity of the Western Globular Amphora Culture as a Result of a Complex, Cascade-Like Expansion Process

12.00 | Marzena Szymt, Adam Mickiewicz University & Poznan Archaeological Museum
Eastern Destinations of the Globular Amphora Culture: Central European Patterns in New Landscapes of Eastern Europe

12.30 – 14.00 Lunch break

14.00 | Luise Lorenz, Kiel University
The “One” and the “Other” – Reconstruction of Communication Structures Based on the Distribution of Funnel Beakers and Globular Amphorae in Megalithic Graves in Northeastern Germany

14.30 | Andrzej Pelisiak, University of Rzeszów
The Beginnings of Mobile Husbandry in Mountain Periphery. The Late Neolithic Transformations (Funnel Beaker and Corded Ware Cultures) in South-East Poland and Climate Change

15.00 | Janusz Czebreszuk1, Marzena Szymt2, 1Adam Mickiewicz University, 2Poznan Archaeological Museum
Social, Economic and Cultural Transformations in the 3rd Mill. BC between Oder and Vistula Rivers

15.30 – 16.00 Coffee break

16.00 | Robert Hofmann, Kiel University
Does the Spatial Subdivision of Large Corded Ware Cemeteries Reflect the Socio-Political Organisation of Final Neolithic Societies?

16.30 | Jakob Westermann, Moesgaard Museum
From Grave Compositions to Cultural Constellations. Spatial Analyses of Burials from Vikletice in Northern Bohemia

17.00 | Jan Kolar, Masaryk University
Social and Spatial Patterns at the Beginning of the 3rd Millennium cal BC in Eastern Czech Republic (Moravia): Case Study Corded Ware Culture

Wednesday 17th of April

9.00 | Marie Besse*, Jocelyne Desideri, University of Geneva
Cultural Choices and People during the 3rd Millennium BC: The Petit-Chasseur Site in Sion (Valais, Switzerland) (Invited)

9.30 | Johannes Müller, Kiel University
Global Bell Beakers or a Mosaic of Regional Social Spaces: An Evaluation of Different Concepts?

10.00 | Tim Kerig1, Jutta Lechterbeck*2, Matthias Merkl2, 1University College London
Different Landscapes – Different Lifestyles?

10.30 – 11.00 Coffee break

11.00 | Ralph Großmann, GS HDL, Kiel University
Interrelations among Corded Ware and Bell Beaker? Material Cultures and Identities within the 3rd Millennium

11.30 | Uffe Rasmussen, Moesgaard Museum
12.00 | Niels Johannsen, University of Aarhus
*Landschaften, Sozioökonomische Organisationen und Friedhofsrituale am Jütischen Halbinsel während der Enden des 4. und der 3. Jahrtausend v. Chr.: Verstehen der Reise in das Leben und das Tode?

12.30 – 14.00 Lunch break

14.00 | Rune Iversen, University of Copenhagen
*Traditions and Transformations – Eastern Denmark in the Third Millennium BC*

14.30 | Sandra Beckerman^1^, Dick Brinkhuizen^2^, Otto Brinkkemper^3^, Virginia García-Díaz^4^, Jos Kleijne^5^, Lucy Kubiak-Martensi^6^, Roel Lauwerier^7^, Gary Nobles^1^, Tania Oudemans^4^, Daan Raemaekers^1^, Bjørn Smit^3^, Liesbeth Theunissen^3^, Annelou Van Gijn^6^, Jørn Zeiler^7^,

^1^University of Groningen, ^2^ArchaeoBone, Haren; ^3^Cultural Heritage Agency of the Netherlands; ^4^Leiden University, Leiden; ^5^BLAX Consult, Zaandijk; ^6^Kenaz Consult, Berlin
*Corded Ware Settlements in the Low Countries: Late Neolithic Behavioural Variability in a Dynamic Landscape*

15.00 | Miloš Spasić, Belgrade City Museum
*Lost in the Third Space: Hybridization of Late Eneolithic Identities in Eastern Serbia*

15.30 – 16.00 Coffee break

16.00 | Gabriella Kulcsár, Research Centre for the Humanities Hungarian Academy of Sciences
*Transition to the Bronze Age: Networks along the Danube in the 3rd Millennium BC*

16.30 | Piotr Włodarczak, Polish Academy of Sciences Cracow Branch
*Is it so Different? Remarks on Burial Practises of GlobularAmphorae and Corded Ware Societies in Lesser Poland*

17.30 | Sławomir Kadrow, University of Rzeszow
*Information Transfer in Early Bronze Age in East-Central Europe*

Thursday 18th of April

11.00 | Final Discussion

12.30 – 14.00 Lunch break
SESSION 10
“SETTING THE BRONZE AGE TABLE”: PRODUCTION, SUBSISTENCE, DIET AND THEIR IMPLICATIONS FOR EUROPEAN LANDSCAPES

*Presenting authors, if more than one author are listed

Tuesday 16th of April

9.00 | Selina Delgado-Raack*, Roberto Risch*, both UAB Barcelona
Social Change and Subsistence Production in the Iberian Peninsula during the 3rd and 2nd Millennium BC (Invited)

9.30 | Péter Czukor, Anna Priskin, Vajk Szeverényi*, Andrea Torma, Anikó Tóth, all Móra Ferenc Múzeum, Szeged
Subsistence, Settlement and Society in the Late Bronze Age of Southeast Hungary: The Case Study of the Fortified Settlement at Csanádpalota-Juhász T. Tanya

10.00 | Nicole Taylor, Kiel University
Food for Thought: Plant Macro-Remains and Spatial Organisation

10.30 – 11.00 Coffee break

11.00 | Christina Karlsson, Southampton University
Table Culture at the Bronze Age Tell-Site of Százhalombatta-Földvár, Hungary

11.30 | Mária Hajnalová1, Klára Šabatová*2, 1University Nitra, 2Masaryk University Brno
Tumulus Culture and Economical Change (Moravia, Slovakia)

12.00 | Mariya Ivanova, DAI, Römisch-Germanische Kommission, Frankfurt am Main
Subterranean Grain Storage and Management of Food Surplus at the Early Bronze Age Site of Vráble, Southwest Slovakia

12.30 – 14.00 Lunch break

14.00 | Helmut Kroll, Kiel University
The Plant Economy of Feudvar, a Fortified Bronze and Iron Age Settlement on a Loess Plateau at the Confluence of Tissa and Danube

14.30 | Manfred Rösch*, Elske Fischer*, Jutta Lechterbeck1, Gegeensuvd Tsrendörj and Lucia Wick2, 1Landesamt für Denkmalpflege im Regierungspräsidium Stuttgart, 2IPNA, Basel
Bronze Age Land Use and Food Production in Southwest Germany According to Botanical Off-Site and On-Site Data

15.00 | Wiebke Kirleis, Kiel University
The Contribution of Gathered Plants to Daily Diet in the Bronze Age

15.30 – 16.00 Coffee break

16.00 | Almuth Alsleben, Akademie der Wissenschaften und der Literatur Mainz
Spatial Distribution of the Cultivation of Spelt Triticum Spelta within the NorthEuropean Bronze Age Culture

16.30 | Susanne Jahns, Brandenburgisches Landesamt für Denkmalpflege und Archäologisches Landesmuseum
The Reflection of Bronze Age Settlements in Pollen Diagrams from Brandenburg, Eastern Germany

Wednesday 17th of April

9.00 | Tony G. Brown, University of Southampton
The Environmental Context and Function of Burnt-Mounds: Production Technology and Landscape in the Irish Bronze Age

Late Bronze Age Land Use in Aeolian Landscapes of Thy, North-West Denmark

10.00 | Ginette Auxiette1, Rebecca Peake*2, Françoise Toulemonde*, 1INRAP, Paris, 2Université de Paris 1
Food Production and Diet During the Late Bronze Age in the Upper Seine Valley (France)

10.30 – 11.00 Coffee break

11.00 | Verena Tiedtke, GS HDL, Kiel University
Grave, Pig and Pine – Animals and Plants in a Lusatian Urn Field

11.30 | Barbara Teßmann, Charité Human Remains Project, Berlin
Preliminary Results of the Anthropological Analysis of the Late Bronze Age Cemetery Müllrose in Brandenburg

12.00 | Poster Session:
Federica Badino1, Marta Dal Corso2,4, Giulia Furlanetto1, Renata Perego1, Cesare Ravazzi1, Marco Zanon1, Wiebke Kirleis2, 1CNR-Istituto per la Dinamica dei Processi Ambientali, Milano, 2Kiel University, 3University of Basel, 4GS HDL Kiel University
Cultural and Climate Interactions in the Last 5.5 ka Vegetation History from the Garda Lake Region (N-Italy). A Comparison of New Palynological Records from Three Small Lakes
PROGRAMME: SESSION 10

Katharina Fuchs*, Nataliya Berezina*, Julia Gresky*,  
1GS HDL, Kiel University, 2MSU Scientific Research  
Institute and Museum of Anthropology Moscow, 3DAI  
Berlin  
Scurvy – Malnutrition in the Caucasian Bronze Age

Penny Johnston, Co.Cork, Carrigtwohill  
Archaeobotanical Results as a Key to Understanding  
Social and Political Status of Middle Bronze Age  
Settlements in Southern Ireland

Astrid Röpke*, Lisa Bringemeier, Astrid Stobbe, all  
University of Frankfurt am Main  
Prehistoric Expansion of Animal Husbandry and  
Environmental Changes in the Northern Alps – An  
integrated Archaeobotanical, Geoarchaeological and  
Archaeological Approach

Iya Shuteleva*, Nickolai Shcherbakov*, Tatiana  
Leonova*, Alexandra Golyeva*, Vladimir Lunkov*, Uliya  
Lunkova*, 1Bashkir State Pedagogical University,  
2Russian Academy of Science, Moscow  
Kazburun Burial Settlement Complex of Southern  
Transurals: Paleo-Landscape and Ancient Communities  
of Srubnay and Andronovskay Cultures of the Late  
Bronze Age

12.30 – 14.00 Lunch break

14.00 | Marcus Groß, Alisa Hujić, Eva Rosenstock*, all  
FU Berlin  
Back to Good Shape: Biological Standard of Living in the  
Copper and Bronze Age (Invited)

14.30 | Claudia Gerling*, Alistair Pike*, Volker Heyd*,  
Elke Kaiser*, Wolfram Schier*, 1FU Berlin, 2University of  
Southampton, 3University of Bristol  
Setting the Table in the Eastern European Steppes

15.00 | Alisa Scheibner, FU Berlin  
Changes after the Revolution: Uniformity or Diversity in  
Late Neolithic and Bronze Age Diets?

15.30 – 16.00 Coffee break

16.00 | Alessandra Varalli*1,2, Gwenaelle Goude1,  
Jacopo Moggi-Cecchi2, 1Aix-Marseille Université,  
2Università degli Studi di Firenze  
Investigation of Italian Bronze Age Dietary Patterns:  
An Anthropological and Multi-Element Stable Isotope  
Approach

16.30 | Yvonne van Amerongen, Leiden University  
Fish in Bronze Age West-Frisia, the Netherlands

Thursday 18th of April

9.00 | Andreas G. Heiss1, Hans-Peter Stika*, 1University  
of Natural Resources and Applied Life Sciences, Vienna,  
2Hohenheim University  
Bronze Age Crop Production – General Tendencies in  
Europe from Early towards Late Bronze Age

9.30 | Final discussion
SESSION 12
SOCIAL AND ENVIRONMENTAL CHANGE IN PRE-HISPANIC LATIN AMERICA

*Presenting authors, if more than one author are listed

**Wednesday 17th of April**

9.00 | Ian G. Robertson, Stanford University
Teotihuacan as a Socio-Ecological Phenomenon (Invited)

9.30 | Volker Soßna, Kiel University
Breaks and Continuities in a 3,000-Year Cultural Sequence in Southern Peru. Did Climate Cause Cultures to Vanish?

9.50 | Emily McClung de Tapia, Universidad Nacional Autónoma de México
Prehispanic and Colonial Landscapes Dynamics and Transformation in the Basin of Mexico

10.10 | Anne Baker 1, Alex Chepstow-Lusty*2, Michael Frogley1, Tomasz Goral1, Melanie Leng1
1Natural History Museum, London; 2University of Sussex, 3NERC, University of Sussex
4200 Years of Environmental and Social Change from the Cuzco Region, Peru

10.30 – 11.00 Coffee break

11.00 | Bernhard Eitel, Fernando Leceta*, Bertil Mächtle, Gerd Schukraft, all University of Heidelberg
The Effect of Pre-Hispanic Agriculture Practices on Soils in the Western Cordillera of the Peruvian Andes (Region Laramate, 14.5)

11.20 | Alexander Herrera*1, Jean Marie Ramel2
1Universidad de los Andes, 2Ecole Nationale Supérieure de l’Energie, l’Eau, l’Environnement
The Hydrology of Ancient Peruvian Terracing: Tombs and Amuna Acquifer Recharge Systems at Awkismarka (Huaylas, Peru)

11.40 | Heather Richards-Rissetto*1, Jennifer von Schwerin2
1Bruno Kessler Foundation, 2DAI Bonn
Exploring the Value of 3D Landscape Visualizations for Investigations of Ancient Maya Socio-Environmental Dynamics

12.10 | Discussion

12.30 – 14.00 Lunch break

14.00 | David Beresford-Jones, University of Cambridge
The Collapse of Nasca on the South Coast of Peru: Reconciling New Perspectives (Invited)
JOINT SESSION 13-14
MODELLING INTERACTION AND DATA MANAGEMENT

*Presenting authors, if more than one author are listed

Wednesday 17th of April

Interaction, Diffusion and Exchange

11.00 | Sabine Reinhold, DAI Berlin
Diffusion of Innovation—Thoughts about Arrows, Packages and Communication Corridors (Invited)

11.40 | Philipp Stockhammer, Heidelberg University
Conceptualizing Cultural Encounter in Archaeology

12.10 | Jutta Kneisel, Oliver Nakoinz* both Kiel University
Modelling Spread and Diffusion of Cremation Burials in Bronze Age Using Radiocarbon Dates

12.30 – 14.00 Lunch break

Space of Interaction and Network of Interaction

14.00 | Andrew Bevan, Tim Kerig* and Stephan Shennan, all University College London
Revisiting Space-Time Systematics and Neolithic ‘Culture’ Areas

14.30 | Laurie Tremblay Cormier, Université de Bourgogne
Cultural identities and Interaction between the Rhine and Rhone Valleys from the 10th to the 5th Centuries BC

15.00 | František Trampota, Masaryk University, Brno
Pottery, Flints and Axes – Markers of Social Organisation, Trade and Cultural Exchange in the Neolithic in the Dyje/Thaya River Catchment (Moravia and Lower Austria)

15.30 – 16.00 Coffee break

Networks of Transportation and Trading Networks

16.00 | Jutta Kneisel, Kiel University
Modeling Hats – The Spread of Lit-Ornamentation

16.30 | Deborah Schulz, FU Berlin
Grave Goods as a Marker of Communication and Exchange. The Cemetery of the Late Roman Iron Age and Migration Period from Jänsswalde, Lower Lusatia

17.00 | Katrin Kermas, FU Berlin
Transportation Systems in Late Iron Age and Roman Period of Gallia Narbonensis. Data Mining in Networks and Dealing with Uncertain and Imprecise Data

Thursday 18th of April

Databases

9.00 | Benjamin Ducke1*, David Bibby2, Independent research consultant, 2Digital Archaeology, State Heritage Pathways to Seamless and Low-cost 3D Data Acquisition and Management (Invited)

9.40 | Nils Müller-Scheeßel1*, Robert Hofmann2, Römisch-Germanische Kommission, Kiel University
The Human Factor: Measuring Man-Made Errors in the Input of Large Databases

10.10 | Christoph Rinne, Kiel University
Documentation and Data Storage Strategies. Old Concepts and Old Media

10.30 – 11.00 Coffee break

11.00 | Philipp Gerth1*, Felix Schäfer1, Frank Henze2, Alexander Schulze2, Nadine Magdalinski3, DAI Berlin, BTU Cottbus, HTW Dresden
OpenInfRA – A Web Based Documentation System for Archaeological Research – Concepts and First Prototypical Implementations

11.30 | Armin Volkmann, University of Würzburg
DARIAH: On the Road towards a Digital Research Infrastructure for Archaeologists

12.00 | Martin Hinz, Kiel University
Data Base 2.0 – How Web Based Solutions Can Improve Archaeological Data Processing

Posters exhibited during the whole workshop:

Benjamin Ducke1*, David Bibby2, Independent research consultant, 2Digital Archaeology, State Heritage Management, Baden-Württemberg
“Survey2gis”: Open Source Software for Processing 3D Survey Data into GIS Data

Radim Hédí, Eva Jamrichová, Jan Kolář, Petr Kuneš, Jana Müllerová, Péter Szabó*, all Institute of Botany of the Academy of Sciences of the Czech Republic
Archaeological Data Management in an Interdisciplinary Environment

Felix Schäfer, Maurice Heinrich, Martina Trognitza*, all IANUS, % Deutsches Archäologisches Institut, Berlin
IANUS – A New Centre for Research Data from Archaeology and Ancient Studies
SESSION 15

THE ARCHAEOLOGY OF POLLUTION

*presenting authors, if more than one author are listed

Wednesday 17th of April

14.00 | Jana Rogasch*1, Peter F. Biehl2, Jacob Brady3, Ingmar Franz4, David Orton5, Sonja Ostapchouk6, Eva Rosenstock7, Elizabeth Stroud8, 1FU Berlin, 2State University of New York at Buffalo, 3Freiburg University, 4University College London, 5Musée Nationale d’Histoire Naturelle Paris, 6University of Oxford

Valuable Waste: Refuse Disposal at Çatalhöyük West (ca. 6,000 – 5,500 BC) (Invited)

14.25 | Thomas Knopf, University of Tübingen

Prehistoric Societies between Overexploitation and Sustainability: Examples, Meaning, Context

14.50 | Walter Dörfler, Kiel University

Is There Any Pollution in Prehistory?

15.15 | Discussion

General Aspects of Theory and Method

15.30 – 16.00 Coffee break

16.00 | Ulrike Sommer, University College London

Salt, Fire, Cress and Fennel – How to Create Pollution (Invited)

16.30 | Johannes Müller, Kiel University

Non-Symbolic Waste and the Possible Re-Interpretation of Ritual Sites

16.45 | Kay Schmütz, Kiel University

Waste Disposal in the Neolithic Enclosure Hundisburg-Olbetal

17.10 | Robert Hofmann*9, Nils Müller-Scheeßel1

1Römisch-Germanische Kommission, 2Kiel University

Detrimental Waste Disposal Behaviour as Trigger for Social and Economic Change? A Case Study from the Central Bosnian Neolithic (5,200 – 4,300 BC)

Thursday 18th of April

9.00 | Eylem Özdogan, Istanbul University

Adapting to or Modifying the Environment: Changing Strategies between the Neolithic and Bronze Age Settlements in Kirklareli

9.25 | Detlef Gronenborn, Römisch-Germanisches Zentralmuseum, Mainz

Tribal Wastelands? Addressing the Topic of Pollution for Neolithic South-Central Europe

9.50 | Jutta Kneisel, Kiel University

Case Study Bruszczewo – the End of an Early Bronze Age Central Settlement Due to Ecological Mismanagement?

10.15 | Discussion

10.30 – 11.00 Coffee break

11.00 | Karen J. Taylor*1, Aaron P. Potito2, David W. Beilman3, Beatrice Ghilardi4, Michael O’Connell5, 1National University of Ireland Galway, 2Department of Geography, 3University of Hawaii at Manoa

Palaeolimnological Impacts of Early Prehistoric Farming at Lough Dargan, County Sligo, Ireland (poster)

11.25 | Aleksandr Diachenko, Institute of Archaeology, Kyiv

Polluting the Peripheral Landscapes: Spatial Behavior and Socio-Economic Development of the Tripolian Populations between the South Bug and the Dnieper

11.50 | Mara Weinelt, Kiel University

Global View: Climate and Pollution in Prehistory

12.10 | Final discussion

“Pollution” – Local to Global Scale