

DIG 2025

11th biennial Developing International Geoarchaeology meeting, held jointly with the AK Geoarchäologie annual meeting
Hosted at the University of Tübingen

May 21st Icebreaker

May 22nd and 23rd Conference sessions:

22nd May Conference Day 1 "Pflegghofsaal," Schulberg 2

7:30-8:00 Registration

8:00-8:15 Welcome Address

8:15-8:30 **Different Pleistocene loess environments and domains in Europe and their significance for archeological occupation**

Frank Lehmkuhl, Philipp Schulte, Christian Zeeden, Andreas Maier

8:30-8:45 **Of Landscape Biographies and Sediment Archives: Interdisciplinary Geoarchaeological Approaches and First Results of the Life of a Landscape Project**

Doris Jetzinger, Tim Kinnaird, Michaela Schauer, Wolfgang Wanek, Jakob Gallistl, Tabea Truntschnig, Samuel Kasemann, Armin Schwaiger

8:45-9:00 **As good as it gets – Geoarchaeological investigations of early Neolithic sites along a large motorway construction project in Saxony**

Christian Tinapp, Birgit Fischer, Harald Stäuble

9:00-9:15 **Beyond Boreholes: Application of Innovative Geoarchaeological Approaches in UK Commercial Archaeology**

Raphael Kahlenberg

9:15-9:30 **Geoarchaeological Data Mining from Archaeological Excavation Data: The Case of Manching**

Philipp Hagdorn

9:30-9:45 **Prehistoric settlement dynamics in Germany: A supra-regional synthesis based on structured data**

Jan Miera, Hans von Suchodoletz, Karsten Schmidt

9:45-10:00 **Land use legacy landforms and soils in forest areas of eastern Bavaria**

Anna Schneider, Thomas Raab, Alexandra Raab, Alexander Bonhage

10:00-10:15 **BREAK**

10:15-10:30 **Lipid biomarker and ancient sedimentary DNA analysis from marine sediments to decipher medieval land use around Rungholt (North Frisia).**

Sascha Scherer, Sabine Fiedler, Ben Krause-Kyora, Andreas Vött, Hanna Hadler

10:30-10:45 **Ancient DNA from Bluefish Cave III sediments provides paleoenvironmental context for terminal Pleistocene human activity**

Caroline Kisielinski, Justin Tackney, Lauren Norman, Rolfe Mandel, Dennis O'Rourke

10:45-11:00 **A Multi-Proxy Analysis of Urban Decline and Transformation in Pompeiopolis (Northern Turkey): Integrating Archaeobotany, Archaeological Micromorphology, and XRF Analyses**

Melis Uzdurum, Mustafa N. Tatbul, Susan M. Mentzer, Massimi Brizzi

11:00-12:00 Round Table Discussion: Education in Geoarchaeology

Lucy Wilson, Ruth Shahack-Gross, Susan Mentzer

12:00-13:00 LUNCH

13:00-13:15 Geoarchaeological approaches to understanding urban changes in deltaic environments: a case study from Istros (Danube delta, Romania)

Alexandra Bivolaru

13:15-13:30 Finding Suitable Grounds: Early Neolithic cultivation potential of Dutch wetland landscapes

Elena Familetto, Hans Huisman, Kim Cohen, Wim Hoek

13:30-13:45 Overexploitation of a medieval coastal landscape - peat extraction sites around Hallig Hooze, Wadden Sea of North Frisia (Germany)

Hanna Hadler, Antonia Reiß, Bente Majchczack, Dennis Wilken, Ruth Blankenfeldt, Soetkin Vervust, Sarah Bäumler, Dirk Bienen-Scholt, Ulf Ickerodt, Stefanie Kloß, Timo Willershäuser, Andreas Vött

13:45-14:00 A Monastery in a Flood Plain - The River Weschnitz Fluvioscape and its interaction with the Lorsch Abbey

Roland Prien, Felix Henselowsky, Nicolai Hillmus, Barbara Jäger, Elena Appel, Thomas Becker, Olaf Bubbenzer, Bertil Mächtle, Gerrit J. Schenk, Andreas Vött, Udo Recker

14:00-14:15 Ecohydrological changes and potential Salmon habitat suitability since pre-industrial times at the Mulde River (Germany)

Martin Offermann, Michael Hein, Ronja Hegemann, Kay Gödecke, Lucas Hegner, Yamuna Henke, Nele Schäfer, Hanna Shelukhina, Erik Liebscher, Severin Opel, Johannes Rabiger-Völlmer, Lukas Werther, Christoph Zielhofer

14:15-14:30 Foodways among the Lacandon Maya: A Dive into Late Postclassic Subsistence through Lipid and Stable isotope Analyses of Ceramics

Eystein Hestholm Listhaug

14:30-14:45 BREAK

14:45-15:00 Bringing light in the darkness: recent geoarchaeological research on the Dark Earth from the historical center of Ghent (Belgium).

Yannick Devos, Jari Hinsch Mikkelsen, Monica Alonso-Eguiluz, Tomas Bradt, Geert Vermeiren, Maarten Berkens, Gunter Stoops

15:00-15:15 Hydro-climatic evolution, resource management and soils around the Al Khashbah archaeological complex, Central Oman, from the Early Holocene to the Bronze Age

Tara Beuzen-Waller, Dana Pietsch, Katharina Schmitt, Lucas Proctor, Conrad Schmidt

15:15-15:30 Human influence on Central German Chernozems/Phaeozems since the Early Bronze Age

Hans von Suchodoletz, Birgit Schneider, Anna Skokan, Bruno Glaser, Steven Polivka, Katja Weidner, Frank Schlütz, Torsten Schunke, Peter Kühn

15:30-15:45 Geoarchaeological identification of the oldest man-made canal in central Europe – The Roman Landgraben (Hessische Ried, Germany)

Elena Appel, Thomas Becker, Markus Scholz, Dennis Wilken, Sarah Bäumler, Henrik Schäfer, Astrid Stobbe, Peter Fischer, Timo Willershäuser, Andreas Vött

15:45-16:00 Germanic Rampart or Roman Encampment? – New Geoarchaeological Evidence at the Roman Conflict Site at Kalkriese (NW-Germany)

Joachim Härtling, Andreas Stele, Salvatore Ortis, Andre Jepsen, Marc Rappe, Jens Bussmann, Alexander Fülling

16:00-17:30 **Poster Session I (list of posters at end of program)**

17:30-18:30 **Key Note Talk-- A Geoarchaeological Approach to Finding Evidence of the First People in the Americas**

Rolfe Mandel

19:30-21:00 **Conference Dinner—“1821 Tübingen,” Wilhelmstrasse 3**

23rd May Conference Day 2 “Pflegghofsaal,” Schulberg 2

8:15-8:30 **A “stratigraphic remnant”: geoarchaeological insights into Holocene environmental and cultural dynamics at Riparo Gaban (Trento, Italy)**

Maurizio Zambaldi, Diego Angelucci, Daniela Anesis, Michael B. Toffolo, Fabio Santaniello, Annaluisa Pedrotti

8:30-8:45 **Upper Pleistocene cave sediments and Neanderthal occupation at Madonna dell’Arma (NW coastal Italy)**

Stefano Costanzo, Vera Aldeias, Marta Pappalardo, Elisabetta Starnini, Anna Galli, Laura Panzeri, Andrea Zerboni

8:45-9:00 **The sedimentary sequence of Cotencher Cave (Neuchâtel, Switzerland): interdisciplinary approach to unravel chronology, Middle and Upper Pleistocene climatic changes and Middle Palaeolithic site formation processes.**

Judit Deák, François-Xavier Chauvière, Frank Preusser, Christophe Falguères, Jean-Jacques Bahain, Hervé Richard, Emilie Gauthier

9:00-9:15 **Site formation or Neanderthal behaviour? Testing hypotheses on the rich organic record from Sesselfelsgrötte**

Alvise Barbieri, Sara Rhodes, Flora Schilt, Christoph Mayr, Thomas Higham, Andreas Pfemeter, Andreas Pastoors, Thorsten Uthmeier

9:15-9:30 **Do mobile groups have local resources?**

Peter Mears and Lucy Wilson

9:30-9:45 **The Curious Case of the Raw Material That Wasn’t Used**

Lucy Wilson and Peter Mears

9:45-10:00 **Time Is on Our Side: Micromorphology of Palaeolithic Simple Open Hearths from El Salt (Spain) in a Time-Resolved Context Spanning Decades to Centuries**

Carolina Mallol

10:00-10:15 **Simulating the effects of repetitive freeze-thaw on combustion materials**

William Chase Murphree, Godefroy Devevey, Vera Aldeias

10:15-10:30 **BREAK**

10:30-10:45 **Fire is a tool. It is to shape landscapes.**

Erhard Schulz, Ludger Herrmann, Peter Bencsik, Horea Cacovean, Bohdan Prots, Mathias Brigitte

10:45-11:00 **Exploring fire history and human impact with polycyclic aromatic hydrocarbons over the past 15 ka at Moossee, Switzerland**

Maximilian Prochnow

11:00-11:15 Light the fire: autofluorescent phytoliths, a new proxy for fire

Luc Vrydaghs, Enrique Fernández-Palacios, Aline Garnier, Alvaro Castilla-Beltrán, Alicia Van Ham-Meert, Yannick Devos

11:15-11:30 Reconstruction of Site Formation processes via Micromorphology and Luminescence Profiling: A case study from the North Cemetery at Ayios Vasilios, Greece

Daniel Fallu, Sofia Voutsaki

11:30-11:45 Sedimentary and post-sedimentary processes in a Lateglacial archaeological context: first data from Landro Cave (pre-Alps, Northeastern Italy)

Corrado Esposito, Michele Bassetti, Cristiano Nicosia, Alessandro Potí, Marco Peresani, Davide Visentin

11:45-12:00 Sedimentological Study of the Infilling of the Sedimentary Depression at Rakhat al Madrh (Oman): a Peripheral Oasis Site.

Aleksandre Prosperini, Max Engel, Laurence Le Callonnec, Tara Beuzen-Waller, Claude Cosandey, Stephane Desruelles, Abigail Buffington, Sebastien Huot, Jennifer Swerida, Eli N. Dollarhide, Eric Fouache

12:00-13:00 LUNCH

13:00-13:15 Evidence of spring activity along the margins of the Kalahari, at the Kathu Pan site, Northern Cape Province, South Africa

Selina Amaral, Michael Chazan

13:15-13:30 Preliminary results of microcontextual geoarchaeological analysis of anthropogenic deposits at Border Cave, South Africa

Peter Morrissey, Dominic Stratford

13:30-13:45 Micromorphology of mortuary practices at Hora 1

Flora Schilt, Jessica Thompson, Jessica Cerezo-Román, Elizabeth Sawchuk, Alex Bertacchi, Susan Mentzer, Potiphar Kaliba

13:45-14:00 Micromorphology of the Pleistocene and Holocene sediments from Leba Cave (Angola)

Daniela Filipa Mirote de Matos

14:00-14:15 BREAK

14:15-14:30 Housing the Land: A micromorphological and geochemical investigation of 'shifting sedentism' in Marakwet, northwest Kenya

David Kay

14:30-14:45 Cave to shelter to castle: Site formation and paleoenvironmental change at the site of Ilseinhöhle (Ranis), Germany

Mareike Stahlschmidt, Michael Hein, André Kirchner, Tobias Lauer, Helen Fewlass, Robert Busser, Shannon McPherron, Tim Schüler, Marcel Weiss

14:45-15:00 Rock carving depth reflects glacial weakening and carvers' geological insight

Carina Liebl, Mark Peterzell, Christian Horn, Johan Ling, Julian Moyano Di Carlo, Ashley Green, Rich Potter

15:00-15:15 Planetary Geoarchaeology: Investigating Site Formation Processes Beyond Earth

Justin Holcomb and Rolfe Mandel

15:15-16:45 **Poster Session II (list of posters at end of program)**

16:45-17:45 **Key Note Talk—Bridging Disciplines: Geoarchaeology's role on Excavation Strategies and Biomolecular Analysis**

Vera Aldeias

Poster Session I (May 22nd, 16:00)

About Donuts and Ditches: Geoarchaeological Investigations at Qurayyah NW Arabia

Isabella Prackwieser, Susanna Cereda, Marta Luciani

Geoarchaeological deposit modeling on the island of Ireland: An untapped resource?

Jason Stewart

Buried by breccia: Site formation processes at the Middle Paleolithic Companheira cave (Southern Portugal)

Guillermo Alzate-Casallas, Alvis Barbieri, Lucia Cobo-Sánchez, Milena Carvalho, İnci Nurgül Özdoğan, Javier Sánchez-Martínez, Nolan Ferar, Miguel Costa, Jovan Galfi, Nompumelelo Maringa, Célia Gonçalves, Lino André, João Cascalheira

Human-environmental relationships from the Early Iron Age to Middle Ages recorded in buried soils and slope deposits from Ostrowite Archaeological Complex (Northern Poland)

Margarita Zalinian, Piotr Kittel, Karolina Leszczynska, Sascha Scherer, Sabine Fiedler, Jerzy Sikora, Renata Stachowicz-Rybka, Alexandra Golyeva, Mirosław Makohonienko, Daniel Okupny

Early Holocene wetland and floodplain environments and their influence on settlement dynamics in the Pannonian Plains – a geoarchaeological case study

Jonna Bügenburg, Christopher Miller, Raiko Krauß

Tracing the Legacy of Lake Lorsch – The Lake Lorsch in written sources

Nicolai Hillmus

Human modification of the fire regime in the Southern European Alps since the Bronze Age

Lisa Danus, Hans von Suchodoletz, Paul Strobel, Maximilian Prochnow, Roland Zech, Franziska Lechleitner, Sönke Szidat, Marcel Bliedtner

Tracing the Legacy of Lake Lorsch - a geographical approach

Barbara Jaeger

Y-shaped pits revisited. Different approaches to a never-ending story

Harald Stäuble, Saskia Kretschmer, Tobias Lauer, Christian Tinapp

Exploring landscape setting: First results of geomorphological and sedimentological investigations of the mammoth bone site Dolní Věstonice I (Czech Republic)

Svenja Ohler, Frank Lehmkuhl, Philipp Schulte, Martin Novák, Jarosław Wilczyński, Marc Händel

How to build a home. Preliminary Results on Variability in Daub from the Outer Settlement of Toboliu, Romania

Eva Drunagel, Frederic Ebel, Astrid Röpke, Alexandra Găvan, Marian Lie, Jana Anvari, Tobias L. Kienlin

Targeted sampling of sedaDNA from microcontexts at the Upper Palaeolithic site, Satsurblia Cave, Georgia.

Thomas Beard, Susanna Sawyer, Omaima Zaki, Susan Mentzer, Ron Pinhasi, Mareike Stahlschmidt

The origin of the Swiss Maiensäss - an unexpected journey back to Roman times in Ramosch (Lower Engadine)

Katja Kothieringer, Angelika Abderhalden-Raba, Philippe Della Casa, Karsten Lambers, Bertil Mächtle, Mario Ranzinger, Thomas Reitmaier, Astrid Röpke

On the natural foundations of a medieval and early modern farmstead using the example of the “Lufthof” heritage site in southern Spessart

Christian Büdel, Angela Suntrup gen. Tintrup, Sabrina Bachmann, Harald Rosmanitz

Phosphorus in cave sediments

Jens Grammer, Christopher Miller, Harald Neidhardt, Yvonne Oelmann

Ditch infill as a source of environmental information and settlement history on multi-cultural site, a case study from Plotiště nad Labem (Czech Republic)

Katarína Adameková, Michaela Kosová, Eva Schimerová, Petr Kočár, Jarmila Bíšková, Vít Vokolek, René Kyselý

Calcrete identification at the Paleolithic site of La Griera (Calafell, Tarragona, Spain)

Miguel Soares Remiseiro, Vera Aldeias, Diego Lombao, Josep Vallverdú Juan Ignacio Morales

Early to Middle Pleistocene chronostratigraphy of the site of Mülheim-Kärlich (German Central Rhineland) and its contribution for understanding the earliest hominin occupation of Central Europe

Peter Fischer, Olaf Jöris, Aileen Klinger, Felix Henselowsky, Tina Georg, Andreas Vött

Diving into central European Neolithics' subsistence - 25 years of Neolithic slash and burn experiment Forchtenberg, SW-Germany - results and future perspectives

Stefan Dreibrodt, Oliver Nelle, Elena Marinova, Natalie Pickartz, Otto Ehrmann, Frank Schlütz, Hannes Knapp, Eileen Eckmeier, Renate Gerlach, Manfred Rösch, Ulrich Vinnai, Erhard Schulz

The Leibniz ScienceCampus „Geogenomic Archaeology Campus Tübingen“ (GACT)

Gerlinde Bigga, Christopher Miller, Susan Mentzer, Nicholas J. Conard, Cosimo Posth and the GACT consortium

Neolithic Formation of Chernozem in Southeast Germany

Anna Holmer, Ildikó Bősze, Günther Moosbauer, Susanne Lindauer, Jörg Völkel

Poster Session II (May 23rd, 15:15)

Micro-stratigraphic and multi-method approach to tackling biogenic deposits: The case study of Biśnik Cave (Poland).

Greta Brancaleoni, Susan Mentzer, Adrian Marciszak, Magdalena Sudoł-Procyk, Krzysztof Cyrek, Magdalena Krajcarz, Maciej T. Krajcarz

Fumiers Reconsidered: Are We Forcing the Past into a One-Size-Fits-All Model? A case study from two cave sites: Velika Vranovica (Serbia) and Areni-1 (Armenia)

Ani Hristonova, Susan Mentzer, Christopher Miller, Dusan Mihailovic, Boris Gasparyan, Samvel Nahapetyan

Investigating Heat Distribution in South African Archaeological sites with clumped isotope thermometry

Jakub Senesi, Christopher Miller, Ellie J Pryor, Carin Andersson, Anna Nele Meckler

GIS-Analysis of peat-loss in the Greater Donaumoos Region – consequences from human interventions

Marie Kaniecki, Anne Köhler, Arnela Rollo, Vera Seeburg, Laura Bergmann, Stefanie Berg, Ulrike Werban, Anja Linstädter, Natascha Mehler, Christoph Zielhofer

Tracing Glacial Periods in Lebanon: Paleoclimate Insights from Speleothem Records

Scott D. McLin, Fadi Henri Nader, Carole Nehme, Susan M. Mentzer, Christopher E. Miller, Hai Cheng, Kira Rehfeld, Valdir F. Novello, Sireen El Zaatari

Historical clay exploitation from palaeo-channel deposits of the Lateglacial Bergstraßenneckar in the Upper Rhine Graben, southern Germany

Max Engel, Felix Henselowsky, Annette Kadereit, Manuel Herzog, Barbara Tucek, Heinrich Thiemeyer, Olaf Bubenzer

Interpreting the Urban Stratification Processes: An Integrated Soil Micromorphological Study of Late Medieval Dark Earth at Broodstraat, Oudenaarde (Belgium)

Meihui Li, Mónica Alonso-Eguiluz, Christine Pümpin, David Brönnimann, Sarah Lo Russo, Simon Kübler, Wouter De Maeyer, Kristin Ismail-Meyer, Yannick Devos

Geoarchaeological Evidence of a Previously Unknown Structure in Olympia: A Possible Ancient Harbor

Lena Slabon, Sarah Bäuml, Elena Appel, Sabine Fiedler, Peter Fischer, Lea Obrocki, Georg Pantelidis, Sascha Scherer, Benedict Thein, Timo Willershäuser, Birgitta Eder, Hans-Joachim Gehrke, Franziska Lang, Erofilis-Iris Kolia, Oliver Pilz, Dennis Wilken, Andreas Vött

The Lake Constance sediment archive

Matthias Heckmann, S. Mirbach, H. Hetzenauer, M. Wessels

The RETS Project: Revealing the Senne. A hidden landmark in the historical center of Brussels, Belgium

Dries Vergouwen, Ann Degraeve, Marc Meganck, Ralf Vandam, Yannick Devos

Into the Dark: Exploring Urban Dark Earth Deposits through Geoarchaeology/Micromorphology.

Christine Pümpin, Yannick Devos, Mónica Alonso-Eguiluz, Astrid Röpke, Sarah Lo Russo, David Brönnimann, Simon Kübler, Meihui Li, Luc Vrydaghs, Eckhard Deschler-Erb, Philippe Rentzel, Kristin Ismail-Meyer

Historic Agricultural Terraces in the Mediterranean – A human-soil perspective through archaeological methods

Axel Cerón González, Soetkin Vervust, Matthias Vanmaercke, Ralf Vandam, and Yannick Devos

Geoarchaeological investigations on the sediment-infill of an Early Mediaeval well from Moravia (Czech Republic)

Katarína Adameková, Michaela Prištáková, Petr Dresler, Jiří Macháček, Michal Kurka, Lukáš Kučera, Petr Kočár, Hedvika Synková, Nela Doláková, Slavomír Nehyba

New micromorphological insight from the Middle Palaeolithic at Hohle Fels (SW Germany): layer GH 14a - AH XIa

Diana Marcazzan, Christopher Miller, Nicholas Conard

Buried and recent Chermozems document Holocene ecological changes and fire activity in the lowlands of Central Germany

Hans von Suchodoletz, Maximilian Prochnow, Lisa Danius, Bruno Glaser, Lyudmila Shumilovskikh, Torsten Schunke, Katja Wiedner, Roland Zech

Charcoals in colluvial geoarchaeology: A vegetation proxy from within – Insights from southwestern Germany

Katleen Deckers, Sascha Scherer, Peter Kühn, Jessica Henkner-Sennock, Benjamin Höpfer

Mid-to-Late Pleistocene landscape change and human occupation at the Jojosi Dongas, KwaZulu-Natal, South Africa

Christian Sommer, Svenja Riedesel, Greg A. Botha, Manuel Will

30 years of geoarchaeology at Hohle Fels

Nicholas J. Conard, Paul Goldberg, Diana Marcazzan, Cosimo Posth, Christopher Miller, Svenja Schray

Identifying dung plaster construction techniques and composition using an experimental approach

Shira Gur-Arieh, Susan Mentzer

Micro-CT scanning of waxberry (*Morella* sp.) seeds: Developing methods to identify plant remains in micromorphological samples from the Middle Stone Age layers at Klasies River Main Site

Eirini Skaroglou, Susan Marie Mentzer, Gabriel Ferreira, Sarah Wurz, Christine Sievers, Christopher Miller

May 24th Field trip: Palaeolithic Caves of the Swabian Jura, Blaubeuren Prehistory Museum

May 25th Micromorphology workshop: Palaeolithic caves of the Swabian Jura