

SESSION 9**QUANTIFICATION AND MODELLING IN GEO- AND ECONOMIC ARCHAEOLOGY****Tuesday 15th of March | 14:00 – 15:30****Poster (together with session 8)**

Elke Hänßler¹, Kimon Christanis², Marie-Josée Nadeau³, Oliver Nelle³, Norbert Nowaczyk⁴, Helen Zagana², Ingmar Unkel³, GS HDL, CAU Kiel¹, University of Patras², CAU Kiel³, GeoForschungsZentrum Potsdam⁴
A Quantitative Approach to the Environmental History of the Gulf of Patras Region (W-Greece)

15:30 – 16.00 Coffee break**Wednesday 16th of March | 9:00 – 10:30**

Marina Fischer-Kowalski, Alpen-Adria University of Klagenfurt, Vienna
Quantification of Societal Metabolism and Colonization of Nature (Invited)

Daniel Knitter, Brigitta Schütt, Michael Meyer, FU Berlin
Central Places of the Historic and Prehistoric World – An Attempt to a Holistic Explanation of the Formation of Prominent Places

Mans Schepers, University of Groningen
The Interpretation of Dung Layers

Discussion of session 9**10:30 – 11:00 Coffee break****Wednesday 16th of March | 11:00 – 12:30**

Peter Houben, University of Frankfurt a. M.
Sediment Fluxes and Budgets during Holocene: Quantification and Modelling (Invited)

Riccardo Klinger, Philipp Hoelzmann, Wolfgang Schwanghart, Brigitta Schütt, FU Berlin
River-Lake Interactions in the Middle Orkhon Valley (Mongolia): Sedimentary Analysis and Implications for Local Landscape Evolution

Svetlana V. Khamnueva¹, Dmitry Kasimov¹, Roshani Sitaula¹, Yang Yu¹, Andrej Mitusov², Environmental Management Programme, CAU Kiel¹, GS HDL, CAU Kiel²
Quantitative Reconstruction of Palaeoenvironment during Holocene Based on Colluvial Layers Sequences

Discussion of session 9**12:30 – 14:00 Lunch break****Wednesday, 16th of March | 14:00 – 15:30**

Christian Heymann¹, Lutz Käppel², Oliver Nelle², Kimon Christanis³, Helen Zagana³, Norbert Nowaczyk⁴, Ingmar Unkel², GS HDL, CAU Kiel¹, CAU Kiel², University of Patras³, GeoForschungsZentrum Potsdam⁴
Holocene Environmental and Cultural Dynamics in the Karst Polje of Stymphalia – Preliminary Results

Michael Lay, Tina Wunderlich, Ercan Erkul and Wolfgang Rabbel, CAU Kiel
Comparative Studies of Soil Magnetic Susceptibility on Archaeological Targets

Anita Casarotto, Francesco Ferrarese, Armando De Guio, Giovanni Leonardi, University of Padua
A Multicriteria and Multiobjectives GIS Model to Locate Archaeological Sites in the Landscape: The Case Study of Eastern Lessinia

Discussion of session 9**15:30 – 16.00 Coffee break****Wednesday 16th of March | 16:00 – 18:30**

Philip Verhagen, Free University of Amsterdam
Predictive Archaeological Modelling (Invited)

Wolfgang Rabbel, Harald Stümpel, Christina Klein, Ercan Erkul, CAU Kiel
Miletos – Geophysical Investigation of an Ancient Mega Polis

Christina Klein, Ercan Erkul, Harald Stümpel, CAU Kiel
Geophysical Investigations in Elaia – Harbour City of Ancient Pergamon

Tina Wunderlich, CAU Kiel
Geophysical Survey on the Island of Föhr

Ercan Erkul, CAU Kiel
Combined Geophysical Prospection of Neolithic Large-Scale Buildings

Georg Roth, University of Leipzig
Analysing Measurements with Spatial Autocorrelation – A Case Study from a Neolithic Flint Mine

Discussion of session 9**Thursday 17th of March | 14.00 – 16.00****Plenary meeting – Final discussion of all sessions**