



45th AK Geomorphologie Annual Meeting 2019 in Kiel, September 28 & 29

Scope:

The **Annual Meeting of the German Geomorphology Group „AK Geomorphologie“** will take place in Kiel as part of the German Geography Meeting (<https://www.dkg2019.de/>), as has been tradition for a number of meetings before. However, the AK Geomorphologie features its **own programme and schedule** over two days on September 28&29. We welcome **all scientists and practioners interested in geomorphology and earth surface dynamics** with backgrounds in physical geography, geosciences, geophysics and others. To be open for a wider range of interested geomorphologists, we welcome contributions in German and English.

Sessions:

We have developed a set of sessions that is **open for all relevant topics** but tries to **link geomorphology across interested communities**.

Social Event

The Geomorphology Dinner & Social Event will take place at the evening of Sept. 28 at the “Forstbaumschule” (<https://forstbaumschule.de/>), 20 min. walking distance from the conference (~ 1.8 km). Depending on weather conditions we will have barbecue in the beergarden or meet inside and choose food from a shortlist menu.

Poster and Best Talk Award, PhD and Postdoc Award, Short AK Geomorphology Update

All awards will be awarded in Session 7, Sep. 29 14.00-14.30

Requests:

Please refer to m.krautblatter@tum.de and sabine.kraushaar@univie.ac.at

Oral sessions (Raum HRS7-HS-2)

Time	Saturday 28.09
08:30 - 09:00	Welcoming Words and General Information by the AK Geomorphology Chair
	Dynamic geomorphology, revealing rates of sediment erosion, transport & deposition over time (M. Marzen, U. Trier, O. Sass, U. Graz/Bayreuth)
09:00 - 09:15	Andreas Dietrich/ Quantitative controls of debris-flow erosion derived by a LIDAR-based geomorphic change detection and a calibrated numerical model
09:15 - 09:30	Michael Dietze/ The trembling of a disrupting Alpine peak – near real time seismic sensing of rock failure initiation and downslope mass wasting at the Hochvogel
09:30 - 09:45	Aaron Bufe/ Controls on the lateral channel migration rate of braided alluvial channel systems
09:45 - 10:00	Janeek Walk Late Pleistocene to Holocene morphodynamics of a multi-phased alluvial fan complex at the coast of the hyperarid Atacama Desert, northern Chile
10:00 - 10:30	PAUSE
	Human-Environment Interaction in and before the Anthropocene (S. Dreibrödt, U. Kiel, B. Schütt, FU Berlin, A. Vött, U. Mainz, J.Völkel, TU München)
10:30 - 10:45	Thomas Raab/ Landforms resulting from pre-industrial charcoal burning – a new research field for geomorphology
10:45 - 11:00	Julia Meister/ The Sacred Canals of Bubastis (Egypt): New Findings from Geomorphological Investigations and Electrical Resistivity Tomography (ERT)
11:00 - 11:15	Moritz Nykamp/ Late Quaternary environmental change in the surroundings of the Pre-Pottery Neolithic site Göbekli Tepe, SE Anatolia—first results
11:15 - 11:30	Phillip Schulte/ Lösskomposition und Morphodynamik in mitteleuropäischen Lösslandschaften - Paläoklimaentwicklung im Spätquartär
11:30 - 11:45	Hanna Hadler/ Rungholt and the Grote Mandrenke in 1362 AD – Reconstructing a drowned medieval landscape in the present-day Wadden Sea of North Frisia
11:45 - 12:00	Clemens von Scheffer/ Human impact, climate and environment in the Holocene: reconstructing the past with portable XRF in mountain peatlands of the Northern Central Alps
12:00 - 12:15	Mario Kirchhoff/ Erosion processes in overbrowsed argan woodlands, South Morocco
12:15 - 13:00	PAUSE
13:00 - 14:00	Keynote DKG
14:00 - 14:15	PAUSE
	Changing Geomorphology (J. Blöthe, U. Bonn, K. v. Elverfeldt, U. Klagenfurt, N. Hovius, GFZ Potsdam, S. Tofelde, U. Potsdam)
14:15 - 14:30	Jörg Völkel/ Signals of Climate and Landscape Change preserved in Southern African GeoArchives – New insights from final results of the BMBF-Program SPACES
14:30 - 14:45	Michael Dietze/ The geomorphic "SHAKE SCAPE"
14:45 - 15:00	Johannes Leinauer/ Process dynamics and early warning strategies for a preparing high-magnitude rock slope failure at the Hochvogel (Allgäu Alps).
15:00 - 15:15	Dorothee Post/ The appearance of geosciences in the 21st century - an identification of prominent challenges for the use of graphic design
15:15 - 15:30	Benjamin Jacobs/ Thermal and mechanical transition in Norwegian permafrost rock walls over short- and long-term timescales.
15:30 - 15:45	Elisabeth Dietze/ Fire in earth surface dynamics - a conceptual approach
15:45 - 16:15	PAUSE/ Postersession
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from 8 PM	Social Event: Dinner in the „Forstbaumschule“ à la carte or a joint BBQ if the weather is nice.
	Sunday 29.09
	Methods to tackle Earth surface dynamics (M. Dietze, GFZ Potsdam, H. Goetz, U. Jena, T. Heckmann, KU Eichstätt, W. Schwanghart, U. Potsdam)
08:30 - 08:45	Luc Illien/ Understanding Relative Velocity Changes observed with Seismic ineterferometry following Gorkha Earthquake Nepal
08:45 - 09:00	Florian Fuchs/ Searching fore- and afterslides of gravitational mass movements
09:00 - 09:15	Matthias Vinnepand/ Challenges in Tracing Climate Oscillations by using element ratios in Lo-ess-Palaeosol-Sequences
09:15 - 09:30	Sabine Kraushaar/ Estimating sediment erosion using phytoliths as a quantitative process tracer in the Spanish Pyrenees
09:30 - 09:45	Elmar Schmalz/ Improving the explanatory power of dynamic slope stability modelling by increasing model complexity and land cover parameterisation
09:45 - 10:00	Anne Köhler/ Deciphering floodplain response to Neolithic occupation - Direct Push sensing and geochemical analyses at UNESCO Pestenacker site (Lech catchment)
10:00 - 10:30	PAUSE
	Deciphering landscape evolution (E. Dietze, AWI Potsdam, T. Hoffmann, BAFG Koblenz)
10:30 - 10:45	Dominik Faust/ Why are soils in Loess-Palaeosol-Sequences in Southern Tunisia sandy?
10:45 - 11:00	Nico Herrmann/ Die Bedeutung hangumgelagerter Substrate für die Bodengeneese auf Carbonatgestein im Westmediterraneanraum (portugiesische Estremadura)
11:00 - 11:15	Raphael Steup/ Holocene soil erosion and catchment evolution in the Central German Uplands: A case study from Northern Franconia
11:15 - 11:30	Simon Matthias May/ Increased hillslope activity in the hyper-arid core of the Atacama – evidence for late Pleistocene palaeo-climatic fluctuations or paleoseismicity?
11:30 - 11:45	Wolfgang Schwanghart/ Accelerated incision of the Yangtze River by drainage basin expansion
11:45 - 13:00	PAUSE
	Linking processes and archives (M. Fuchs, U. Gießen, T. Reimann, U. Wageningen)
13:00 - 13:15	Olaf Bubenzer/ Star Dunes – Aeolian Process Studies and Stratigraphy (Erg Chebbi, Morocco)
13:15 - 13:30	Stefanie Tofelde/ Fill-terrace formation and sediment-signal disruption in response to environmental perturbations
13:30 - 13:45	Andrea Junge/ Establishing a novel palaeoenvironmental archive: Ancient cisterns in the Negev Highlands (Israel)
13:45 - 14:00	Christopher Roettig/ The Eastern Canarian context - dust, volcanos, lots of sand and 'fake soils'
14:00 - 14:30	Award Ceremony (lecture, poster, PHD, and Postdoc) & Farewell

Poster session

Poster #	Poster program
1	Anette Eltner, Andreas Kaiser, Michael Dietze, Álvaro Gómez Gutiérrez/ Observing the impact of torrential precipitation events with high temporal resolution at a gully in the Mediterranean
2	Tobias Heckmann, Florian Haas, Livia Piermattei, Moritz Altmann, Michael Becht/ Multitemporal investigation of morphodynamics and sediment fluxes based on historical DEMs in the new DFG research unit SEHAG
3	Juergen Heinrich, Fabian Kirsten, Susann Heinrich/ Terrestrial sediment dynamics on a tectonically uplifted marine platform (365 AD) in Southwestern Crete, Greece
4	Miriam Marzen, Johannes B. Ries/ Frosthub in Weinbergen: Ein wirksamer Denudationsprozess?
5	Anna Iglseider, Ronald E. Pöppl/ UAV-based high resolution remote sensing data: potential for soil erosion monitoring and modeling on field scale
6	Paula Hilger, Gro Sandøy, Kari Sletten, Lena Rubensdotter, Knut Stalsberg, Raymond S. Eilertsen, Line Nygård/ Detailed Quaternary geological maps in Steep terrain as Basis for Landslide-Hazard evaluation
7	Lydia Krauss, Oliver Bens, Jörg Völkel/ LIDAR based scenarios concerning reconstruction of fluvial sediment deposition and erosion phases during Late Glacial and Holocene at the Tsauchab Riv
8	Tilmann Wolpert, Tilmann Wolpert, Daniel Wolf, Jonas Krus, Lilit Sahakyan, Dominik Faust, Markus Fuchs/ Loess in Armenia – Challenges towards building a chronostratigraphic record using luminescence dating methods
9	Fabian Kirsten, Juergen Heinrich/ Estimation of autochthonous and allochthonous factors in soil formation on limestones in the Eastern Mediterranean (Crete, Greece)
10	Jörg Völkel, Lydia Krauss, Stefanie Mayer & Ingrid Kögel-Knabner/ Bavarian Landscapes under Climate Change – Carbon and Nitrogen Mobility in Changing Cultural Landscapes based on Colluvial and Alluvial Processes
11	Annegret Larsen, Joshua Larsen, Thibault Lambert, Alexandre Luiset, Stuart N. Lane, Christopher T. Robinson, Pascal Schwiezer, Andre R. Siebers / Beavers and their influence on the structure and function of river systems (hydrology, geomorphology, water quality, ecosystems)
12	Stefan Haselberger, Jan-Christoph Otto, Lisa Maria Ohler, Robert Junker, Sabine Kraushaar/ Quantification of biogeomorphic feedbacks between small-scale erosion and ecological succession on slopes in a high-mountain environment
13	Johannes Voellmer, Johannes Schmidt, Lukas Werther, Stefanie Berg, Sven Linzen, Michael Schneider, Ulrike Werban, Peter Dietrich, Christoph Zielhofer/ Direct push sensing as high-resolution validation for (geo-)archaeological and geomorphological issues in alluvial settings at the Fossa Carolina
14	Matthias Konzett, Jakob Heinzle, Janika Kiep, Julia Meister, Sabine Kraushaar / Geochemical Elements vs. Phytoliths – Tracer comparison for Bayesian Un-mixing models
15	Christoph Zielhofer, Johannes Schmidt, Johannes Völlmer, Lukas Werther, Ulrike Werban, Peter Dietrich, Stefanie Berg, Peter Ettl, Sven Linzen, Andreas Stele/ 3D-Modelling of Charlemagne's summit canal – merging remote sensing and buried landform data
16	Tanja Schroeder, Riccardo Scandroglio, Maximilian Wittmann, Michael Krautblatter/ Modelling past, present & future thermal-spatial permafrost evolution at the Zugspitze (Germany/Austria)
17	Paula Hilger, Reginald L. Hermanns, John C. Gosse, Bernd Etzelmüller/ Dating large landslides –opportunities and challenges using terrestrial cosmogenic nuclides
18	Georg Veh, Oliver Korup, Ariane Walz/ Current and future hazard from Himalayan glacial lake outburst floods
19	Jan Blöthe, Jakob Müller, Till Groh, Sabine Kraushaar/ Towards deciphering the contribution of permafrost and active layer to summer runoff in a small alpine catchment
20	Svetlana Khamnueva-Wendt, Jann Wendt, Anastasia Vasiullina, Hans-Rudolf Bork/ Landscape engineering in Hedeby: genesis of anthropogenic landforms in the Viking town
21	Mathias Ulrich, J. Otto Habeck/ Permafrostodynamik und indigene Landnutzung unter Bedingungen der aktuellen Umweltveränderungen in nordsibirischen Tundrenlandschaften
22	André Kirchner, Nico Herrmann, Robin Stadtmann, Timo Lahmer, Lisa-Marie Hille, Thomas Steinbrecher/ Hollow ways in the Hildesheimer Wald Mountains (Lower Saxony, Germany) – formation, detection and quantification
23	Julia Meister, Laura Dietrich, Oliver Dietrich, Jens Notroff, Janika Kiep, Julia Heeb, André Beuger, Brigitta Schütt/ Cereal processing at Early Neolithic Göbekli Tepe (southeastern Turkey): new insights from a combined study of phytoliths and grinding stones
24	Wolfgang Schwanghart, Jürgen Mey, Tony Reimann/ Illuminating the speed of sand – quantifying sediment transport using optically stimulated luminescence
25	Amelie Naderi, Andrei Andreev, Elisabeth Dietze/ Glacial to interglacial fire and vegetation interactions in north-eastern Siberia around 2.5 Myrs ago using sediment of Lake El'gygytyn