



Report of the 12th International Young Geomorphologists' meeting, Stadtoldendorf, May 25-27, 2018

The German Young Geomorphologists (YG) conducted the 12th International Young Geomorphologists' meeting in Stadtoldendorf from May 25-27, 2018. 49 German and international guests from Austria, Italy, Slovakia, India and Switzerland gathered close to Hildesheim for a three-day meeting. The list of attendees comprised undergraduate, graduate and PhD students as well as postdocs from 20 different universities and institutions. The focus was to present and discuss own research and general geomorphological topics in a rather informal and friendly environment.

The main frame of the program consisted of three blocks of oral presentations, one block of spotlight presentations, two poster sessions, two keynotes, and an excursion (see detailed program attached). The sessions for oral presentations were organized as follows:

Session I: "Paleoenvironmental Research" featuring talks by Dirk Nowacki (Goethe University Frankfurt/Main), Neelrathan Singh (JNU, New Delhi), Katrin Geiger (University of Cologne)

Session II - Spotlights featuring talks by Johannes Buckel (TU Braunschweig), Christian Halla (University of Bonn), Heidi Bernsteiner (University of Salzburg), Anna Igelseder (University of Vienna), Jakob Heinzle (University of Vienna), Matthias Konzett (University of Vienna)

Session III: "Hard rocks and hard wood" featuring talks by Jörn Profe (University of Bremen/University of Gießen), Gerald Raab (University of Zurich), Dorothee Post (University of Vienna)

Session III: "Soil erosion, human impact and fluvial morphology" featuring talks by Johannes Schmidt (University of Leipzig), Stefan Haselberger (University of Vienna), Anna Kidova, Milos Rusnak, Milan Frandorfer (Slovak Academy of Sciences)

Proceedings

The program started with the usual introductory games where the participants shortly introduced themselves and their research projects ("Scales Game"). The attendees could continue to get to know each other during dinner. This was followed by an "After Dinner Talk" with **Prof. Dr. Andreas Lang (University of Salzburg) "On formative events, conserving topography and morphologic hysteresis – a geomorphological trajectory"**. The talk was followed by a very lively discussion on careers in geomorphology and academia in general. Afterwards, the persons responsible for the individual posters were asked to advertise their work with one slide in a limited time of 30 seconds (for further details on the broad selection of topics see program in the attachment). This was followed by the actual **poster session**, which was open ended, so that discussion kept on going far into the night.

Saturday began with the second **keynote** presentation by **Dr. Peter Fischer (University of Mainz)** entitled **“Terrestrial System Response to North Atlantic Climate Oscillations during the Last Glacial Period a new high- resolution Loess-Palaeosol-Sequence from the Schwalbenberg (Middle Rhine Valley, Germany)”**. The keynote lecture was followed by the first session of oral presentations on **“Paleoenvironmental Research”**. Afterwards, the organizing team of the German YG gave a short overview of their activities in the past year and upcoming events (e.g. YG session at EGU, social events at conferences, YG meeting 2019 in Gießen). The YG introduced funding possibilities and awards from the AK Geomorphologie that are available to the YG members of the AK. Furthermore, we put our focus on the upcoming joint AK Geomorphologie and DEUQUA conference, the **“Central European Conference on Geomorphology and Quaternary Sciences”**, in Gießen and the election that will take place during the conference.

After lunch, **Jun.-Prof. Dr. André Kirchner (University of Hildesheim)** led an **excursion to the surroundings of Städtoldendorf**, where the participants could observe geomorphological features of the area (dolines, loess deposits and soil profiles, etc.). The first stop of the excursion was a close by surface mine (see pictures below), where anhydrite and gypsum are excavated and the regional geologic and geomorphological setting was elaborately introduced and explained. At the following stops soil profiles and sinkholes were shown, explained and discussed. Furthermore, there was plenty of time for continued discussions and networking as well as gaining impressions of the beautiful surroundings during the excursion.



The Spotlights-session was scheduled after the field trip. **Spotlights** are a new format with a maximum of 5 minutes of presentation which is followed by an in depth discussion of 10 minutes or more. This gives young researchers the opportunity to present their work in progress, unsolved problems or issues

they face during their research. After dinner, the evening ended with the continuation of the poster session.

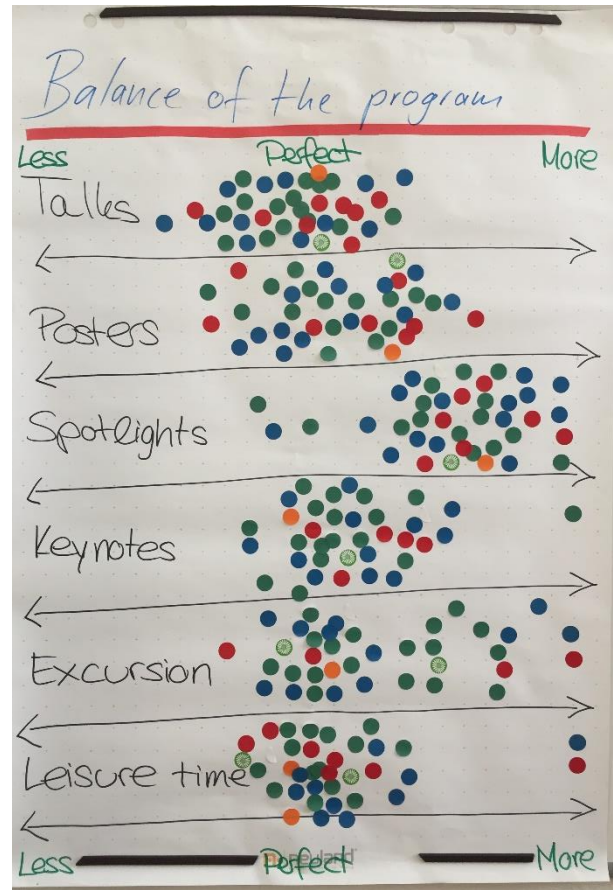
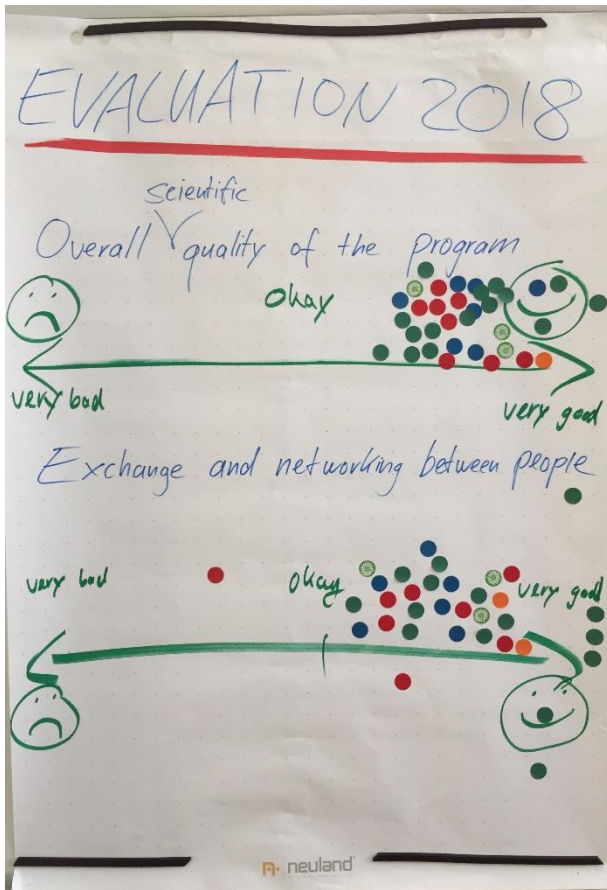
On Sunday, the program started with two sessions of oral presentations on “Hard rocks and hard wood” and “Soil erosion, human impact and fluvial morphology”. The meeting ended with an evaluation of the conference and an open feedback round after lunch (see feedback).



Last years' feedback included the comments to have more time for scientific presentations and discussions in general. Thus the YG meeting was followed by a two-day YG workshop on “Multidisciplinary subsurface exploration – Direct Push, Vibracoring and ERT” (May 28-29, 2018) organized by Jun.-Prof. André Kirchner (University of Hildesheim), Dr. Peter Fischer (University of Mainz) and their colleagues in Hildesheim. The very interesting and successful workshop had 20 participants and was a great addition to the YG meeting.



Feedback



Overall, the feedback on the meeting was very positive. The new session with spotlight was a great success and almost all participants of the workshop would like to have more spotlight-presentations at the next meetings. These sessions put the focus on scientific discussions (min. 10 minutes) instead of the presentations (max. 5 minutes). Other than that, the participants were very satisfied with the balance of the program.

During an open feedback round the participants mentioned the great venue (Waldpädagogikzentrum Weserbergland), the good size of the group (limited to 50 participants), the excursion by foot (no cars needed during the weekend) and the two keynote lectures. The attendees mentioned they would like to have two keynote lecture at all meetings, one on Friday focusing on a general topic ("After Dinner Talk") and one scientific presentation on Saturday. The group played several games (table tennis, Frisbee, Kan Jam) during the breaks and in the evenings which added to a very positive atmosphere in the group.

Concerning new additions to the program it was suggested to have a workshop focusing on scientific discussions in the group (e.g. on the future of geomorphic research or research integrity and ethics). Furthermore, some participants would like to have an additional practical workshop on a certain method during the weekend. However, it is very challenging to fit more items to the already dense agenda and instead of adding an extra day to the program an additional workshop following the meeting was organized at the University of Hildesheim.

General points

The YG group is thankful for the financial support of the German Working Group on Geomorphology (AK Geomorphologie) and sponsoring companies (see attached) which makes it possible to run a Young Geomorphologists' meeting every year affordable for young scientists. We also thank Simon Meyer-Heintze (University of Würzburg) for handling the participant communication. We would like to specially thank Prof. Dr. Andreas Lang and Dr. Peter Fischer for their excellent keynote presentations, Jun.-Prof. André Kirchner for guiding the great excursion, as well as Jun.-Prof. André Kirchner and Jasmin Karaschewski for organizing this great meeting in Stadtoldendorf.

Andrea Junge, Raphael Steup and Tilmann Wolpert (University of Gießen) will organize the 13th international meeting of the German Young Geomorphologists group. It will take place near Gießen/Marburg from May 17-19, 2019.

The three chairpersons and a support team of six young geomorphologists who were elected in 2017 will organize the activities of the YG in the upcoming year. The members of the team are Johannes Buckel (University of Salzburg), Christian Halla (University of Bonn), Jasmin Karaschewski (University of Hildesheim), Julia Meister (FU Berlin), Simon Meyer-Heintze (University of Würzburg), Anna Schoch (University of Bonn), Anne Schuchardt (University of Halle), Philipp Schulte (University of Aachen), and Anne Voigtländer (Technical University of Munich/GFZ).

Kind regards

Johannes Buckel, Christian Halla, Jasmin Karaschewski, André Kirchner, Julia Meister, Simon Meyer-Heintze, Anna Schoch, Anne Schuchardt, Philipp Schulte and Anne Voigtländer

PROGRAM

Friday, 25/05/2018

- 16:00** **Arrival**
- 17:00** **Get to know the program and the group**
Let's learn some names and share a drink
- 18:00** **Dinner**
- 19:00** **After Dinner Talk with Prof. Dr. Andreas Lang: On formative events, conserving topography and morphologic hysteresis - a geomorphological career trajectory – Convener: Anne Voigtländer & Anna Schoch**
- 20:30** **“30 second madness” and open end Poster Session – Convener: Johannes Buckel**

You have 30 SECONDS to present your topic on one slide. After the short introductions we will continue discussing the posters with some cool drinks

Janina Bösken (RWTH Aachen): Integrating geo-stuff - a multi-proxy geoarcheological investigation at the Early Upper Paleolithic site of Crvenka-At, Vrsac (Serbia).

Andreas Ewald (University of Salzburg): Fracture Dynamics and Rock Slope Instability in Deglaciating Headwalls.

Jonas Grothues (University of Hildesheim): Computation of energy consumption during hikes based on geographical data.

Timo Lahmer (University of Hildesheim): Gully formation in the Hildesheimer Wald Mountains.

Tobias Mattner (University of Hildesheim): Risk assessment of heavy metal contamination from historical slag sites around Hildesheim.

Andrea Junge (Justus-Liebig-Universität Gießen): Correcting the chronology: Lifecycle of open water reservoirs constraint by OSL.

André Mollenhauer (University of Hildesheim): Differences of the infiltration performance of a soil in conventional field and grassland use.

Philipp Maurischat: Mass movements as a potential contributor in high-altitude dissolved organic matter (DOM) fluxes.

Janeek Walk (RWTH Aachen): Coastal alluvial fans as geoarchives in Northern Chile – Preliminary results on their geomorphology, architecture, and chronology.

Tilman Wolpert (University of Giessen): Loess-palaeosol sequences in Armenia: a challenging archive for the application of luminescence dating.

Raphael Steup (University of Giessen): Quantification of Holocene sediment dynamics in a mesoscale river catchment of the Northern Franconian Jura, Germany.

Stephan Pötter (RWTH Aachen): Loess distribution and selected Quaternary deposits in Germany.

Julian Trappe (University of Würzburg): Human influence on the medieval landscape in the Spessart.

Simon Terweh (University of Bonn): Sediment transport dynamics along the bioclimatic gradients of the Chilean coastal cordillera, First results of the BioScape project.

Mario Kirchhoff (University of Trier): Wadi dynamics in the Souss region, South Morocco.

Katrin Langenwalter (University of Salzburg): The formation of the Sary Chelek landslide dam - Contribution by the Chatkal earthquake 1946.

Saturday, 26/05/2018

08:00 **Breakfast**

09:00 **Keynote: Dr. Peter Fischer (University of Mainz): "Terrestrial System Response to North Atlantic Climate Oscillations during the Last Glacial Period a new high- resolution Loess-Palaeosol-Sequence from the Schwalbenberg (Middle Rhine Valley, Germany)". Convener: André Kirchner**

10:20 **Session I Talks: Paleoenvironmental Research - Convener: André Kirchner**

You have 20 minutes for your topic, so make your talk short (12-15 min) and have enough time for discussion!

10:20 *Dirk Nowacki* (Goethe University Frankfurt/Main): Geoecological research on the sediments of 'Lake Gorgana' paleolake (Southern Romania), using the multi-proxy approach.

10:40 *Neelratan Singh* (JNU, New Delhi): Glacial, fluvial and Aeolian interaction in Nubra and Shyok Valleys Ladakh Himalaya.

11:00 *Katrin Geiger* (University of Cologne): Multi-proxy analyses of peat deposits in a silted Saar meander (Wawerner Bruch, Rhineland-Palatinate)

11:30 **Getting to know the YG and AK Geomorphologie elections**

12:00 **Lunch**

13:30 **Field trip to the surroundings: Jun.-Prof. Dr. André Kirchner & Jasmin Karaschewski**

17:30 **Session II – Spotlights – Convener: Anna Schoch & Anne Voigtländer**

You have 15 minutes for your topic, your spotlight talk is limited to 5 minutes. Bring your research topic or problem to the point and have plenty of time for discussion and problem solving!

17:30 *Johannes Buckel* (TU Braunschweig): Assessment of sediment budgets and permafrost distribution at the NamCo Lake, Tibetan Plateau.

17:45 *Christian Halla* (University of Bonn): How to extrapolate 2D-geophysical data to a landform?

18:00 *Heidi Bernsteiner* (University of Salzburg): After the ice: postglacial evolution of small overdeepened basins in the NE Alps - Lake Taferlklaussee, Austria.

18:15 *Anna Igelseder* (University of Vienna): Surface change detection using TLS.

18:30 *Jakob Heinzle* (University of Vienna): Chemical fingerprinting of lithological units with rare earth elements and lithium-Isotopes in the Spanish Pyrenees.

18:45 *Matthias Konzett* (University of Vienna): Using phytoliths as a geo-process marker in the Spanish Pyrenees.

19:00 **Dinner**

20:30 **Poster session II**

21:30 **Party / Get together**

Sunday, 27/05/2018

08:00 Breakfast

09:30 Session III Talks: 'Hard rocks and hardwood' - Convener: Christian Halla

You have 20 minutes for your topic, so make your talk short (12-15 min) and to the point and have plenty of time for discussion!

09:30 *Jörn Profe* (University of Bremen & Gießen): Detection of freshwater tufas from airborne LiDAR bathymetry

09:50 *Gerald Raab* (University of Zürich): A story of granite landforms and surface denudation variations.

10:10 *Dorothee Post* (University of Vienna): Are hardwood species suited for reconstructing landslides?"

10:30 Short break

10:45 Session IV Talks: Soil erosion, human impact & fluvial morphology - Convener: Simon Meyer-Heintze & Jasmin Karaschewski

You have 20 minutes for your topic, so make your talk short (12-15 min) to have enough time for discussion!

10:45 *Johannes Schmidt* (University of Leipzig): Pre-modern Digital Terrain Models - Modelling the human impact.

11:05 *Stefan Haselberger* (University of Vienna): Investigating soil erosion and lateral connectivity hotspots.

11:25 *Anna Kidova, Milos Rusnak, Milan Frandofer* (Slovak Academy of Sciences): Recent morphological changes of the Slovak rivers.

12:00 Lunch

13:00 Give us what we deserve!

We need your opinion on what you liked and disliked!

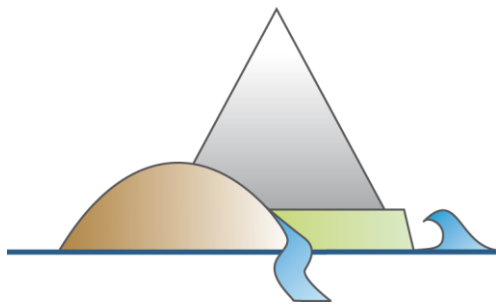
13:30 Goodbye and some final remarks

Participants

1	Aaron	Bufe	German Research Center for Geosciences (GFZ)	aaronbufe@gmail.com
2	André	Kirchner	University of Hildesheim	andre.kirchner@uni-hildesheim.de
3	André	Mollenhauer	University of Hildesheim	mollen@uni-hildesheim.de
4	Andrea	Junge	Justus Liebig University Gießen	andrea.junge@geogr.uni-giessen.de
5	Andreas	Ewald	University of Salzburg	andreas.ewald@stud.sbg.ac.at
6	Anna	Igelseder	University of Vienna	anna.igelseder@univie.ac.at
7	Anna	Kidova	Slovak Academy of Sciences	geogkido@savba.sk

8	Anna	Schoch	University of Bonn	anna.schoch@uni-bonn.de
9	Anne	Voigtländer	TU Munich	a.voigtlaender@tum.de
10	Christian	Halla	University of Bonn	christian.halla@uni-bonn.de
11	David	Morche	Umweltamt, Saalekreis Gewässerschutz	David.Morche@saalekreis.de
12	Dirk	Nowacki	Goethe University of Frankfurt/Main	nowacki@em.uni-frankfurt.de
13	Dorothee	Post	University of Vienna	dorothee.post@t-online.de
14	Gerald	Raab	University of Zurich	gr.science@gmx.at
15	Gerrit	Heinmüller	University of Bonn	gheinmue@uni-bonn.de
16	Heidi	Bernsteiner	University of Salzburg	heidi.bernsteiner@stud.sbg.ac.at
17	Jakob	Heinzle	University of Vienna	jakob.heinzle@gmx.at
18	Jan	Blöthe	University of Bonn	jan.bloethe@uni-bonn.de
19	Janek	Walk	RWTH Aachen University	janek.walk@geo.rwth-aachen.de
20	Janina	Bösken	RWTH Aachen University	janina.boesken@geo.rwth-aachen.de
21	Jasmin	Karaschewski	University of Hildesheim	Jasmin.Karaschewski@uni-hildesheim.de
22	Johannes	Buckel	TU Braunschweig	j.buckel@tu-braunschweig.de
23	Johannes	Schmidt	University of Leipzig	j.schmidt@uni-leipzig.de
24	Jonas	Alsleben	University of Bonn	jonas.alsleben@uni-bonn.de
25	Jonas	Grothues	University of Hildesheim	grothues@uni-hildesheim.de
26	Jörn	Profe	University of Bremen / University of Gießen	profe@uni-bremen.de
27	Julian	Trappe	University of Würzburg	julian.trappe@uni-wuerzburg.de
28	Katrin	Geiger	University of Cologne	katrin.geiger@uni-koeln.de
29	Katrin	Langenwalter	University of Salzburg	katrin.langenwalter@stud.sbg.ac.at
30	Lisa	Humer	University of Vienna	lisahumer91@gmail.com
31	Lydia	Krauß	TU München	lydia_krauss@gmx.de
32	Mario	Kirchhoff	Trier University	kirchhoff@uni-trier.de
33	Matthias	Konzett	University of Vienna	m.e.konzett@gmail.com
34	Milan	Frändorfer	Slovak Academy of Sciences	geogfran@savba.sk
35	Milos	Rusnak	Slovak Academy of Sciences	geogmilo@savba.sk
36	Neelratan	Singh	Jawaharlal Nehru University (JNU), New Delhi	neelratan.geology@gmail.com
37	Nico	Herrmann	University of Hildesheim	nico.herrmann@gmx.net
38	Nils	Karges	University of Würzburg	nils.karges@stud-mail.uni-wuerzburg.de
39	Philipp	Maurischat	Soil scientist, background in landslide processes	p.maurischat@gmx.de
40	Raphael	Steup	Justus Liebig University Gießen	Raphael.Steup@geogr.uni-giessen.de
41	Sabine	Kraushaar	University of Vienna	sabine.kraushaar@univie.ac.at
42	Sara Maria	Stücker	University of Bonn	s6sastue@uni-bonn.de
43	Simon	Meyer-Heintze	University of Würzburg	simon.meyer-heintze@uni-wuerzburg.de
44	Simon	Terweh	University of Bonn	sterweh@uni-bonn.de
45	Stefan	Haselberger	University of Vienna	stefan.haselberger@gmx.net
46	Stephan	Pötter	RWTH Aachen University	stephan.poetter@geo.rwth-aachen.de
47	Tilmann	Wolpert	Justus Liebig University Gießen	urs.t.wolpert@geogr.uni-giessen.de
48	Timo	Lahmer	University of Hildesheim	lahmer@uni-hildesheim.de
49	Tobias	Mattner	University of Hildesheim	mattner@uni-hildesheim.de

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