

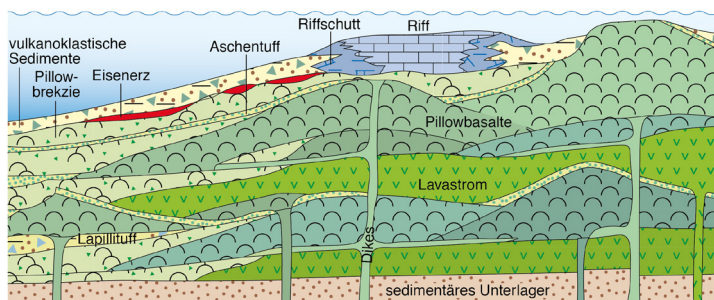
## Geosciences Working Group 2019

The Geosciences Working Group of the Faculty 5 of the University of Bremen offers an introduction to geology, palaeontology and mineralogy to the public every second Thursday of the month at 7:20 pm. These meetings give the chance to discuss with each other and to get advice from a scientist. The meetings include a generally comprehensible talk on geoscientific topics. Further information can be found on our homepage: [www.geosammlung.uni-bremen.de](http://www.geosammlung.uni-bremen.de)

### 10th January 2019

**Lecturer:** Prof. Wolfgang Bach

**Topic:** Diabas Volcanism in the Rhenish Slate Mountains: Foundation and Destroyer of Devonian Reefs



The rocks of the Rhenish Slate Mountains represent sedimentary and volcanic deposits from a peripheral sea south of the equator. During a very lively volcanic phase in the middle devon, sea mountains formed in this Rhenoheryn Sea, on which riffatolle formed out of stromatopores and corals. The explosive nature of these volcanoes, however, also leads to the local destruction of the reefs. In the lecture, examples of the interactions between volcanism and reef development will be presented.

### 14th February 2019

**Lecturer:** Dr. Barbara Donner

**Topic:** The Great Collision - NEW Findings from the Chicxulub Crater



Mass extinctions mark the history of the earth. During the most famous biological crisis 66 million years ago, the impact of a meteorite off the Yucatan peninsula played a decisive role.

Scientists have recently DIRECTLY drilled into the Chicxulub meteorite crater to find out why this impact caused so much death and destruction!

**14th March 2019**

**Lecturers:** Werner Liebenberg

**Topic:** About *Ursus spelaeus* (cave bear) in the Geosciences Collection of the University of Bremen



Werner Liebenberg has been working intensively with the fossils of *Ursus spelaeus* the cave bear in recent years. In its long history, the Geosciences Collection has collected, purchased numerous specimens of this impressive fossil. The lecture gives an insight into the long history of these animals and their connection to the Geoscientific Collections in Bremen.

**11th April 2019**

**Lecturer:** Harald Rohe

**Topic:** The Arctic Lecture: At eye level with the polar bears



Harald Rohe has made Spitsbergen his second hobby and reports about the Arctic Excursion 2017: Spitsbergen is a little bit cold, but still a dream destination. In his picture lecture he tells exciting stories about Spitsbergen. He reports on the changes in the mining settlements, the nature, the animals and fossil finds made during this trip.

**9th May 2019**

**Lecturer:** Heinrich Kuhbier

**Topic:** The 100th birthday of Dr. Thorwald Kruckow



Dr. Thorwald Kruckow worked from 1959 at the Überseemuseum in Bremen as a curator for the geosciences. Thus he is an important and influential person for the Geosciences Collection of the FB5. But also for the Geoscientific Working Group which he founded at the museum in 1958. Heinrich Kuhbier, his companion for many years, tells about the life of this person who inspired many participants of the working group for palaeontology.

**13th Juny 2019**

**Lecturer:** Dr. Jens Lehmann

**Topic:** Giants of the prehistoric sea



The lecture takes us on a journey through 550 million years. It shows how the giant growth of animals developed - from cephalopods, which were already up to eight metres long, to relatives of today's Nautilus, the extinct ammonites, placoderm fish and dinosaurs with giant eyes and giraffe necks. Why the primeval animals became so big can be partly explained by their living conditions. One thing is certain: Because of their original size, they had few enemies, therefore had a longer life and therefore a long time to produce offspring. They had an extremely economic metabolism and were also equipped with a large brain. The reason for the extinction of the giants has not yet been clarified by science. What is certain, however, is that the end of the large reptile groups coincided with the end of the dinosaurs living on the mainland, although many reptile species had already become extinct.

**12th September 2019**

**Lecturer:** Prof. Karin Zonneveld

**Topic:** Climate and Pestilence



The lecture describes current research on the relationship between climate change and epidemics. What influence did the climate have, for example, on the ancient metropolis of Rome?

**10th October 2019**

**Lecturer:** Jürgen Reinhard

**Topic:** Chemistry in Palaeontology



This lecture looks at the connection between chemistry and palaeontology. The speaker will discuss different concepts of chemistry and their application in the reconstruction of past worlds. Among other things, isotopes and their significance in absolute age determination as well as temperature and habitat reconstruction will be discussed. Finally, we dive into the exciting world of biomolecules in the geosciences.



**14th November 2019**

**Lecturer:** Eva Bischof

**Topic:** The sufferings of the young Dokthoranden - How do you actually make science?



Everyone probably knows the following sentence: „Scientists have found out that [...]. But what is behind this phrase, who are these scientists and what drives them? Eva Bischof talks about her everyday life as a doctoral student in the working group of the Geosciences Collection at the University of Bremen. Based on her research project on ammonoids from the Triassic of Nevada, she discusses what can be behind the big black box called „Science“.

**12th December 2019**

**Lecturer:** all

**Topic:** „Weser Geo-highlight 2018“ award & Christmas celebration



Many Bremen citizens collected rocks, fossils and minerals during 2018. Therefore, to add to the general warmth of the Christmas celebration, a prize is given for the “Exhibit of the year”. The most interesting, most pretty or best prepared specimen is voted as the “Weser Geo-highlight 2018” and honored with a prize - no matter if the find originates from the Bremen area, distant regions in Europe or even from overseas. In addition, the Geo-collection is presenting its new acquisitions of the year and the lecture programme for the year 2019 is released.