



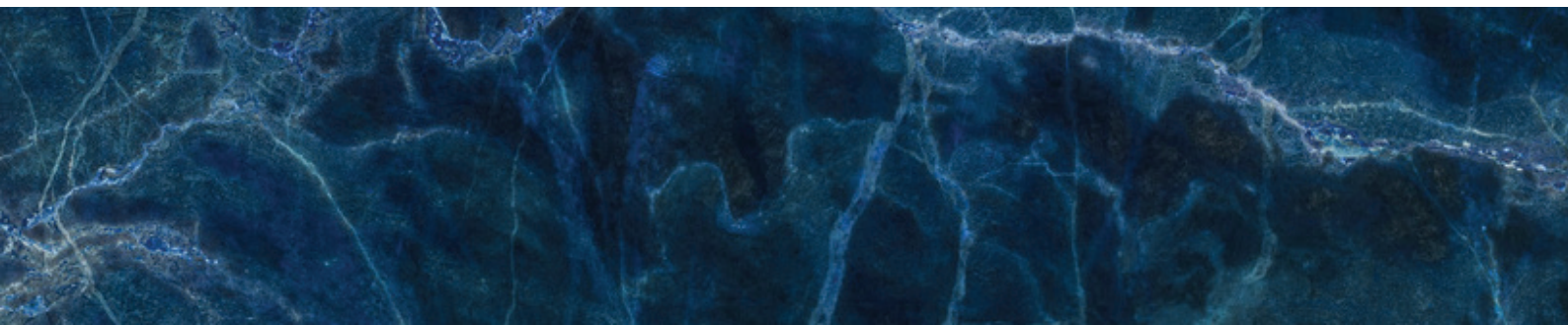
GEOBONN 2018

2–6 September 2018 | Bonn | Germany



Living Earth

Programme



Ständiges Auf und Ab braucht Sicherheit.

Seit fast 120 Jahren steht RWE für zuverlässige und stabile Stromversorgung. Und die wird in Zukunft immer wichtiger. Denn damit die Energiewende klappt, braucht es jemanden, der die Produktionsschwankungen der erneuerbaren Energien ausgleicht. Der da ist, wenn er gebraucht wird. Und einen Rückhalt bietet, damit wir für alle Anforderungen gerüstet bleiben. So sichern wir bei RWE die elektrische Zukunft in Deutschland. www.rwe.com



RWE

Zukunft. Sicher. Machen.

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Welcome to the GeoBonn 2018

Dear Colleagues,

This is our great pleasure to welcome you to Bonn and the GeoBonn conference, the joint annual meeting of the of the Deutsche Geologische Gesellschaft – Geologische Vereinigung (DGGV), the Deutsche Mineralogische Gesellschaft (DMG), the Paläontologische Gesellschaft (PalGes) under the auspices of the Dachverband der Geowissenschaften (DVGeo).

The GeoBonn will offer 620 presentations across 50 sessions over 17 scientific themes. This book contains an overview of the conference programme as well as the detailed programme of each of the 4 days of the GeoBonn. The abstracts are available for download from the GeoBonn website (<http://www.geobonn2018.de/>). Three excursions (pre- and post-conference) have been organized by the Organising Committee, our colleagues of the Steinmann Institute für Geologie, Mineralogie und Paläontologie of the University of Bonn, and cooperation partners to highlight the diversity of geological landscapes and wonders surrounding the nice city of Bonn.

Our social programme includes of course an icebreaker on Sunday and a dinner on Wednesday, which will be respectively held at the main building of the University of Bonn and at the brand-new mensa of the Poppelsdorfer quarter, 20 minutes away from the main University building. On Monday evening, Mojib Latif will be giving a public lecture (held in German) on Climate change, while on Tuesday evening, the association of the Earth Science students from Bonn University are organizing a fun and entertaining Science Slam.

We are looking forward to this joint meeting and hope you will enjoy all the scientific and social aspects of the GeoBonn. Finally, we would like to conclude these welcome words by thanking all organisers, the members of the scientific committee, our secretaries and student helpers.

Nikolaus Froitzheim and Ambre Luguët
on behalf of the organizing committee.

Living Earth means...

...the processes that made Earth an habitable planet early in Earth's history

...the evolution of life on Earth

...the changing face of Earth as described by plate tectonics, the unifying theory first published 50 years ago (1968)

...environmental change through Earth's history, at present, and projected into the future

...risks and resources for our society



Public evening lecture

Prof. Dr. Mojib Latif
GEOMAR, Kiel

Herausforderung Klimawandel

Monday 3 September 18:30 (in German) | Hörsaal X

Das Klimaproblem steht seit vielen Jahren im Blickpunkt des öffentlichen Interesses. Der Geochemiker Roger Revelle hatte bereits vor über einem halben Jahrhundert die ungeheure Dimension der menschlichen Klimabeeinflussung beschrieben, in dem er von einem gigantischen Experiment sprach, das die Menschen anstellten. Das Klimaproblem ist hauptsächlich ein Energieproblem und hängt eng mit der Verfeuerung der fossilen

Brennstoffe - Kohle, Erdöl und Erdgas - zur Energiegewinnung zusammen. Dabei entstehen große Mengen des Gases Kohlendioxid (CO₂). Das Gas reichert sich allmählich in der Luft an, was zwangsläufig durch den sich verstärkenden Treibhauseffekt zur Erderwärmung führt. Was kann man heute schon an Veränderungen messen? Wie wird sich das Klima in der Zukunft ändern? Wie ist die internationale Klimapolitik zu bewerten?

Plenary lectures

Prof. Dr. Maria McNamara
UCC, Cork, Ireland

The integument of fossil vertebrates: evolution, physiology and behaviour

Monday 3 September 11:30 | Hörsaal X

The integument of vertebrates has diverse functions in mechanical protection, homeostasis, locomotion, respiration and coloration. Many vertebrate fossils preserve evidence of the integument as mineralized or carbonaceous remains. Where the integument is preserved as mineralized remains, only selected tissue components survive fossilization, for reasons that are poorly understood. Carbonaceous remains of the integument usually comprise primarily melanosomes, which are cellular organelles rich in the decay-resistant

pigment melanin. Much previous work on vertebrate fossil melanin has focused on reconstructions of integumentary color and its associated ecological functions. Major questions remain, however, regarding the broader biological distribution, chemistry and taphonomy of melanin and melanosomes. Here I will review recent and current work by my group that sheds light on each of these major issues, with broader implications for our interpretation of the soft tissue anatomy, physiology and behaviour of fossil vertebrates.

Prof. Balz Kamber
iCIRAG, Dublin, Ireland

Deep Earth controls over the surface environment on the early Earth

Tuesday 4 September 11.30 | Hörsaal X

The Earth's Precambrian sedimentary record reveals a complex evolution of the planet's surface environment, highlighting the importance of bio-geo-chemical interaction, particularly the long-term effect of biology on key elemental cycles, including C, O, N, S, Fe, Mo, and U. In these discussions, deep Earth control is often regarded to be of only secondary importance, a view that may need revisiting.

rocks shows a clear bimodal distribution. The composition of the basaltic mode remained relatively unchanged through time but in the Archaean, there was an additional komatiitic high-Mg mode. This observation strongly argues against secular change in the potential temperature of the convecting upper mantle, instead suggesting a relatively cool asthenosphere but much hotter Archaean plumes or upwellings from the deeper mantle.

It is widely acknowledged that the early Earth was producing substantially more radioactive heat than at present (2 x at 2.7 Ga) and likely still contained more primordial heat. Most researchers equate this with an 'overall' substantially hotter Archaean mantle. Alternatively, the Archaean Earth was more efficient at losing heat and maintained a relatively cool upper mantle throughout. New statistical analysis of the vast published geochemical database for Archaean mafic and ultramafic

These hot upwellings had very important consequences for the surface environment. The common presence of ultramafic volcanic rocks on the seafloor exposed olivine to hydrothermal alteration. The resulting serpentinisation reactions led to formation of metal alloys that acted as catalysts for Fischer-Tropsch reactions, supplying the early ocean with molecular building blocks for life-forming reactions. Where large mantle upwellings occurred in the oceanic realm, oceanic plateaus ap-

peared, which are a rare sight on the present planet but could have been common on the early Earth. The rare earth element pattern and Sr-isotope composition of the Archaean seawater suggest that mafic/ultramafic plateaus might have breached the surface and been a dominant land type. Weathering on these plateaus released significant loads of many compatible elements into the ocean. The high oceanic inventory of some of these elements may have influenced biochemical pathways

Prof. William B. F. Ryan
LDEO, Columbia, USA

Exploring the Symmetry of Seafloor Spreading
Wednesday 5 September 11:30 | Hörsaal X

The discovery in 1966 by Pitman and Heirtzler of the remarkable symmetry of magnetic anomalies across the axis of Pacific-Antarctic mid-ocean ridge broke the barrier of resistance to the earlier hypotheses of continental drift and seafloor spreading. Although Vine and Mathews had already proposed that lava erupted from fissures at the crest of the ridge acquired a magnetization in the direction of the geomagnetic field at the time of cooling, the pattern of reversals in their model was ad hoc and not observed in nature. However, as soon as the same pattern of magnetic stripes in the southwest Pacific was repeated in the northeast Pacific and again in the North and South Atlantic, all doubt vanished. Presently we have a near-global coverage of magnetic anomalies. From this compilation come remarkable maps of seafloor ages. However, magnetic reversal boundaries imprinted in oceanic crust occur at spacings of tens to hundreds of kilometers depending upon spreading rates. On the other hand, abyssal hill spacing, as

and evolution (e.g. Ni promoting methanogens). A currently underexplored aspects of the Archaean surface is the weathering pathway of common mafic to ultramafic volcanic ashes and its effect on residual land mineralogy and sediment.

The rapid disappearance of common ultramafic volcanic rocks at ca. 2.5 Ga predates the Great Oxygenation Event by just over 100 Ma: is this a fortuitous coincidence or a causal relationship?

revealed in multibeam swath mapping and deep-towed side-looking sonar imagery, is considerably tighter and is typically just a few kilometers or less. Investigations of the Juan de Fuca, East Pacific, and Pacific-Antarctic spreading centers show that abyssal hills are symmetric across accreting plate boundaries and represent the flanks of split axial volcanic ridges. The episodes of volcanic outpouring to create the axial ridge and its subsequent splitting to create the median depression have periods similar to Milankovitch cycles (precession, obliquity and eccentricity). A link occurs between these cycles and sea level fall. The loss of the weight of seawater induces mantle decompression and subsequent increase in melt production and delivery to the spreading axis. In this presentation we will look at the creation of abyssal hills and their corresponding magnetic stripes at steps of 25 ky for a duration of 10 my to witness a symmetric pattern of ocean crust production caused by the waxing and waning of magma supply.

Prof. Gordon Lister
ANU, Canberra, Australia

Gravity drives Great Earthquakes
Thursday 6 September 10:30 | Hörsaal X

This presentation discusses the role of gravity in driving Great Earthquakes, with data from the 2004 Great Sumatran Earthquake, and from the 2011 Tohoku-oki Great Earthquake. We show the Sumatran segments of the 2004 megathrust event were subject to compression in a direction near to orthogonal with the margin trend, consistent with effect of relative movement of the adjacent tectonic plates. In contrast, the crust above the Andaman Sea segments was subject to margin-orthogonal extension, consistent with motion towards the gravitational potential well accumulated due to prior lateral (westward) rollback of the subducting edge of the northward moving Indian plate. The story is quite different for the 2011 Tohoku-oki earthquake, however. Here, lineament-bounded extensional channels mark segments of the East Japan megathrust with different geodynamic behaviour to that of adjacent compressional

segments. This pattern implies movement in the extensional channel driven by seaward gravitational collapse of the Japanese crust, requiring the rupture to have offered negligible resistance. The upward migration of fluids and magma would explain the prominent volcanic lineaments. Fluid activity would also have reduced effective stress on the overlying megathrust, or produced lubricating mineralogy as the megathrust slowly unlocked in the decade preceding catastrophic failure.

The consistent landward-dip of normal faults at the trenchward-end of the extensional channel suggests an array of tilt-blocks linking to a detachment beneath a slowly slumping slab sheet, with a strike dimension comparable to the width of the extensional channel. Again, nevertheless, although for different geodynamic reasons, gravity has driven a Great Earthquake.



Awards GeoBonn 2018

DGGV, DMG and PalGes are awarding some student awards.

- » Outstanding student poster award
All first-author students presenting a poster are eligible to compete for this award. Successful students will be awarded financial support (1st place: € 600, 2nd: € 400, 3rd: € 200).
- » DMG- Paul Ramdohr Award
The DMG is awarding the Paul Ramdohr award (€ 1,000) to a young academic for an outstanding oral presentation. Students who wish to enter the contest need to be or to become a DMG member.
- » PalGes Young Scientist Award (YSA)
All first-author students presenting a talk are eligible to compete for this award. Successful students will be awarded financial support (1st place: € 500, 2nd: € 300, 3rd: € 200).

DGGV Awards | Ceremony on 5 September 2018, 13:15, Hörsaal X

Eugen Seibold Medal: PD Dr. Michael Stipp (Universität Innsbruck, AT)

*Lecture: **Paleopiezometry: A powerful tool for stress measurements in the Earth's crust and mantle***

4 September 2018, 15:30, Hörsaal VIII

Gustav-Steinmann Medal: Prof. Kaj Hoernle (GEOMAR Helmholtz Center)

*Lecture: **New Developments in Understanding the Origin of South Atlantic Intraplate Volcanism (Tristan-Gough-Walvis, Discovery and Shona volcanic tracks)***

4 September 2018, 15:30, Hörsaal II

Leopold-von-Buch-Medal: Prof. Miriam Kastner (University of California, FL, USA)

Serge-von-Bubnoff Medal: Prof. Gerold Wefer (MARUM, Bremen University)

*Lecture: **Science Communication - Examples and New Initiatives***

5 September, 14.30, Hörsaal IX

Hans Cloos Prize: Dr. Iuliana Vasiliev (Senckenberg Biodiversity and Climate Research Centre)

Bernd-Rendel-Prize: Dr. Janina Kleemann (Martin-Luther-University Halle-Wittenberg)

DMG Awards | Ceremony on 6 September 2018, 11:30, Hörsaal X

Honorary member: Prof. Klaus Heide (Universität Jena) & Prof. Walter Maresch (Ruhr-Universität Bochum)

Abraham Gottlob Werner medal: Prof. Ulli Bismayer (Mineralogisch-Petrographisches Institut, Universität Hamburg)

Goldschmidt Prize (2018): Prof. Oliver Plümper (Department of Earth Sciences, Utrecht University, The Netherlands)

Goldschmidt Prize (2016): Dr. Christoph Burkhardt (Universität Münster)

*Lecture: **Isotope anomalies - a Rosetta stone for deciphering planetary genetics and the solar system's dynamic evolution***

4 September 2018, 15:30, Hörsaal III

Beate Mocek Prize: Jaayke Lynn Fiege (née Knipping) (Leibniz Universität Hannover and American Museum of Natural History, New York, USA)

Paul Ramdohr Award (2017): Jessica Starke (Tübingen)

PalGes Awards

Korrespondierende Mitgliedschaft: Prof. Dr. ZHANG Xingliang aus Xi'an (China)

Karl-Alfred-von-Zittel-Medaille: Udo Frerichs (Hannover/Langenhagen)

Young Scientist Award | Ceremony on 6 September 2018, 11:45, Hörsaal X

Social events

Sunday, 2 September

AK Paleobiologie

(09:00-16:00, Building Paläontologie, Nussallee 8)

DMG council meeting

(14:00-17:00, at Senatssaal)

PalGes council meeting

(14:00-17:00, at Festsaal)

Icebreaker

(17:00-20:00, at the Aula)

Snacks and drinks are included in the conference fee

Monday, 3 September

Plenary lecture

(11:30-12:30, at HS X)

Prof. Dr. Maria McNamara (Univ. College Cork, Ireland):
The integument of fossil vertebrates: evolution, physiology and behaviour

DVGeo council meeting

(12:45-14:00, at Senatssaal)

DGGV council meeting

(17:00-18:30, at Senatssaal)

General assembly DMG

(17:30-18:30, at HS VII)

Public evening lecture

(18:30-20:00, HS X)

Prof. Dr. Mojib Latif (GEOMAR, Kiel):
Herausforderung Klimawandel

Tuesday, 4 September

Plenary lecture

(11:30-12:30, at HS X)

Prof. Balz Kamber (Trinity College Dublin, Ireland):
Deep Earth controls over the surface environment on the early Earth

AK Mikropaläontologie

(12:30-14:00, at HS II)

General assembly DGGV

(18:00-19:00, at HS VII)

General assembly PalGes

(18:00-20:00, at HS III)

Science Slam (19:00, at HS X, in German only!)

(no fees, registration on site possible, too)

Who can make the most sense?

If technical terms are replaced by colloquial expressions, complicated contexts are reduced to the essentials and topics beyond everyday life are visualized by means of floral metaphors, then the heavily headed doctoral thesis can certainly unfold humoristic potential.

Wednesday, 5 September

Plenary lecture

(11:30-12:30, at HS X)

Dr. William B. F. Ryan (Lamont-Doherty Earth Observatory of Columbia, USA):

Exploring the Symmetry of Sea-floor Spreading

AK Paläobotanik / Palynologie

(12:30-13:15, at HS III)

DGGV Award Ceremony

(13:15-14:15, at HS X)

Workshop Publication of research data related to scientific articles in the geosciences

(14:30-16:30, at HS IV, no fee but registration required)

organized by the Fachinformationsdienst Geowissenschaften (FID GEO)

Conference Dinner

(19:00-23:30, at CAMPO Campusmensa Poppelsdorf)

The conference dinner will take place in the recently modernized canteen of the University Bonn featuring a pasta manufacture. For all participants who haven't registered, yet: A limited number of spare tickets can still be purchased at the registration desk. The fee includes dinner, drinks and entertainment by local Irish folk musicians.

Address: CAMPO Campusmensa Poppelsdorf
Endenicher Allee 19, 53115 Bonn

Thursday, 6 September

Plenary lecture

(10:30-11:30, at HS X)

Prof. Gordon Lister (The Australian National University Canberra):

Gravity drives Great Earthquakes

DMG Award Ceremony, Poster Awards & Closing Ceremony

(11:30-12:15, at HS X)



Field trips

All field trips depart from bus stop (near the Main Building of Univ. Bonn) Corner "Am Hof 1"/"Adenauerallee"

Pre-Conference Excursion Sunday, 2 September 2018

Rodderberg and Drachenfels: Classical geology and new challenges on either side of the Rhine
09:00-17:00

Excursion guides:

Prof. Dr. Nikolaus Froitzheim (Steinmann-Institut University Bonn), Mathias Knaak (Geologischer Dienst NRW), Prof. Dr. Roland Strauß (Geologischer Dienst NRW), Marco Wolf (BGR Hannover), Dr. Thomas Burschil (LIAG Hannover)

Requirements: Outdoor shoes; the excursion comprises some hiking along easy paths. Ascent of Drachenfels covers about 200 m altitude difference (alternative: Drachenfels cog railway).

Morning: Pleistocene ash- and scoria ring of the Rodderberg Volcano - Outcrops and presentation of scientific drilling results.

The Rodderberg volcano comprises a sediment-filled crater depression of 800 m diameter, surrounded by a low ash and scoria ring and carved into the Devonian basement. Volcanic rocks are nicely exposed at the surface but their volume appears to be minor. During scientific drilling by LIAG (Hannover) in 2011, 72 m of sediment fill were found under the crater centre, underlain by ash and scoria beds transitional into massive foidite to basanite lava down to a depth of 164 m where drilling stopped. Preliminary results from the sediment fill suggest that it comprises several glacial-interglacial cycles, in line with a published 321±37 ka thermoluminescence age of the ejecta.

Afternoon: Geology and extensive rock securing measures at the Drachenfels, Siebengebirge.

The excursion will cover a range of topics including the geology of the Tertiary volcanic rocks at the Drachenfels with its beautiful sanidine phenocrysts, the ancient quarry workings and the use of the rock as building material for important buildings such as the Dom in Cologne, and the ongoing problems with rock failure and cliff collapses and the resulting securing measures. At present the entire rock cliff is covered with scaffolding, and, thus, it is possible to reach any point along the cliff for detailed studies (depending on work progress the scaffolding might be removed by August – but this does not effect the excursion). The present work comprised 3D capturing of the cliff utilizing tLIDAR and drones to establish the fracture network, drill holes and tele viewer analysis to complement the fracture network analysis from inside the cliff, and numerous geotechnical securing methods.

Lunch package included!

Post-Conference Excursion Friday, 7 September 2018

Braunkohlentagebau und -Kraftwerk
07:00-17:00

Excursion guides:

PD Dr. Klaus-Dieter Grevel (University Jena), Dr. Georg Heumann (University Bonn)

Requirements: Outdoor shoes; Not suitable for people with pacemakers and implants with metal.

Lunch at the canteen of Kraftwerk Neurath included!

Reefs, Romans and Volcanoes - Excursion to the Geology and Palaeontology of the Eifel
09:00-18:00

Excursion guides:

Prof. Dr. Thomas Litt (University Bonn), Prof. Dr. Jes Rust (University Bonn)

Requirements: Outdoor shoes; you don't have to be particularly fit.

Lunch is not included but possible. Extra stop for lunch is scheduled.

Themes | Sessions

Topic 1 – Early Earth

- 1a) Cosmochemistry- from dust to planets
- 1b) Tracing life through deep time: New approaches & fresh perspectives
- 1c) Evolution of the Early Earth's mantle-crust and ocean-atmosphere systems

Topic 2 – 50 years of plate tectonics

- 2a) InterRidge: Multidisciplinary research on oceanic ridges
- 2b) Microfabrics, deformation mechanisms and physical properties of rocks
- 2c,e) Fifty Years with Plate Tectonics – Move on
- 2d) Tectonic Systems

Topics 3 – Mountain building from depth to surface

- 3a) Investigating mountains with a microscope: How microscale studies contribute to the understanding of mountain building processes
- 3b) The Eastern Mediterranean: A natural laboratory to study orogenic processes operating at different times and at different structural levels
- 3c) The Alpine-Mediterranean chain- looking from surface to depth, and back in time

Topic 4 – Dynamics of core and mantle on Earth and Other Planetary Bodies

- 4a) Magmatic processes and their geochemical signatures on Earth and other planetary bodies
- 4b) Materials, structure and dynamics of Earth's deep interior
- 4c) Dynamics of magmatic and volcanic processes

Topic 5 – Sedimentary systems

- 5a) Temperature and fluid dynamics in sedimentary basins
- 5b) Advanced techniques and case studies in sedimentary provenance analysis
- 5c) Tectonics & Sedimentation- From Fractures to Basins
- 5d,g,i) Marine Systems
- 5e,h) Quaternary Geochronology and Earth Surface Processes
- 5f) Integrated chemostratigraphy and applications

Topic 6 – Neotectonics, earthquakes, impacts and natural hazards

- 6a,c) Natural Hazards: earthquakes, tsunamis, landslides | Sea-level fluctuations over time – Sea-level index points and dating approaches
- 6b) Impact cratering throughout the solar system

Topic 7 – Mineralogy, material science of the Earth

- 7a) Advances and new applications in chemical, isotope and structural analysis
- 7c+17b) Minerals and Materials: Properties and Structures

Topic 8 – Climate change, climate dynamics and paleoclimate

- 8a) Groundwater and climate change
- 8b,d) Oceanic oxygen, ice ocean interactions and climate change
- 8c) Loess systems and the reconstruction of Pleistocene climate dynamics
- 8e) New Insights into the Quaternary Vegetation and Climate History



Topic 9 – Earth materials, resources, and waste management

- 9a) Geoscientific aspects of the safe management of mineral, hazardous and nuclear wastes
- 9c,b) Geology of unconventional resources of critical raw materials
- 9d) Magmatic Ore Deposits

Topic 10 – Fossil ecosystems

- 10a) The early ‘Explosion of Life’ - from the Cambrian innovations to the great Ordovician radiations
- 10b) Biodiversity dynamics in deep time- signatures of radiation and extinction in the geological record
- 10c,e) Bone histology and tetrapod locomotion- Part 1: Bone histology;- Part 2: Tetrapod locomotion
- 10d) Marine reptiles: a successful story in Mesozoic ecosystems
- 10f) Isotope analyses on calcareous and phosphatic fossils: Potentials and weaknesses
- 10g) Reconstructing the ecological roles of extinct organisms: functional morphology, phylogeny and ontogeny
- 10h) Vertebrate jaws and teeth — form and function
- 10i) Greening of the living Earth: Advances in Palaeobotany and Palynology

Topics 11 – Fossilization and the quality of the fossil record

- 11a) The fossil record of evolution and evolutionary processes
- 11b) Taphonomy: Inferences about ecosystems and paleobiology
- 11c) Soft part preservation: The limits of the fossil record

Topics 12 – Applied and industrial micropalaeontology

- 12a) Reconstructing lost worlds- applications of microfossils

Topics 13 – Applied Geophysics

- 13a) Rock rheology, deformation transients, and the earthquake cycle
- 13b) Geophysics and the new Standortauswahlgesetz

Topics 14 – 3D applications in the geosciences

- 14a) Computational geosciences

Topic 15 – Outreach, education, and the societal relevance of Geosciences

- 15a) Geoscientific collections in the area of responsibility between science and public relations

Topic 16 – Fluid-Rock Interactions

- 16a) Fluid-rock interaction: from mechanisms to rates – from atoms to plates
- 16b) Solid-fluid reactions in technical and Earth systems
- 16c) Subduction zone input, processes and output

Topic 17 – Open Session

- 17a) Young Scientist Session

Programme at a glance

Sunday, 2 September 2018

	Foyer Aula	Senatssaal	Festsaal	Room tba
09:00				AK Paläobiologie
14:00		DMG council meeting	PalGes council meeting	09.00-16:00
17:00	Registration & Icebreaker			

Monday, 3 September 2018

	Foyer & Aula	Hörsaal VIII	Hörsaal IX	Hörsaal III	Hörsaal V
08:00	Registration				
09:00		11c	16b	1b	3b
10:30	Coffee break- exhibition				
11:00		Opening Ceremony - Welcome address by Prof. Dr. Dr. hc Michael Hoch, Rector of the University of Bonn &			
11:30		Plenary Lecture: Prof. Dr. Maria McNamara (Univ. College Cork, Ireland) <i>The integument of fossil vertebrates:</i>			
12:30	Lunch break	DVGeo council meeting Senatssaal			
14:00		11c	16a	5e	3b
14:45		5c			
15:00	Coffee break- exhibition				
15:30		5c	16a	5e	
16:30	Poster Social (16:30-18:00) >> 2c, 5b, 5c, 5e, 6b, 9a, 11a, 12a, 13a, 13b, 14a, 16a, 16b, 16c, 17a				
17:00		DGGV council meeting Senatssaal			
18:30		Public evening lecture: Prof. Dr. Mojib Latif (GEOMAR, Kiel) <i>Herausforderung Klimawandel</i> Hörsaal X			

Tuesday, 4 September 2018

08:00	Registration				
08:30		2a	16a	1c	
09:30	Coffee break- exhibition				
10:00		2a	16c	1c	3c
11:15		Plenary Lecture: Prof. Balz Kamber (Trinity College Dublin, Ireland) <i>Deep Earth controls over the surface</i>			
12:30	Lunch break				
14:00		3a	17a	1a	6a
15:00	Coffee break- exhibition				
15:30		3a	17a	1a	6a/c
16:45	Poster Social (16:45-18:15) >> 1a 1b 1c 2a 3a 3b 3c 5f 6a 7c 8a 8e 9d 10c+e 10g 11b 11c 15a				
18:00				General assembly PalGes	
19:00					

Wednesday, 5 September 2018

08:00	Registration				
08:30		2d	7a	10i	10b
09:30	Coffee break- exhibition				
10:00		2d	7a	10i	10b
10:45					
11:15		Plenary Lecture: Dr. William B. F. Ryan (Lamont-Doherty Earth Observatory of Columbia, USA) <i>Exploring the</i>			
12:30	Lunch break			AK Paläobotanik	
13:15		DGGV Award Ceremony Hörsaal X			
14:15					
14:30		2d	15a	10i	5d
16:15	Poster Social (16:15-17:45) >> 2b 2d 4a 4b 4c 5a 5d 7a 8b 8c 9c 10b 10d 10h 10i				
19:00	Conference Dinner at the Mensa				

Thursday, 6 September 2018

08:00	Registration				
08:30		2b	5a	4c	5d
09:30	Coffee break- exhibition				
10:30		Plenary Lecture: Prof. Gordon Lister (The Australian National University Canberra) <i>Gravity drives Great</i>			
11:30		DMG Award Ceremony, Poster Awards and Closing Hörsaal X			



Hörsaal I	Hörsaal X	Hörsaal VII	Hörsaal II	Hörsaal IV	
					08:00
	9a	10f	10g	5b	09:00
					10:30
Welcome address of presidents the societies Hörsaal X					11:00
<i>evolution, physiology and behaviour</i> Hörsaal X					11:30
					12:30
13a	6b	13b	10g	5b	14:00
					14:45
					15:00
13a	6b	13b	12a		15:30
					16:30
		General Assembly DMG (17:30-18:30)			17:00
					19:00
					08:00
	6b	14a	12a		08:30
					09:30
5f	10c/e	14a	12a	8e	10:00
					11:15
<i>environment on the early Earth</i> Hörsaal X					11:30
			AK Mikropaläontologie		12:30
7c	10c/e	9d	2c	8a	14:00
					15:00
7c	10c/e	9d	2c	8a	15:30
					16:45
		General assembly DGGV			18:00
Science Slam (in German!) HSI					19:00
					08:00
9c	8c	4a		10d	08:30
					09:30
9c	8c	4a	11a	10d	10:00
					10:45
<i>Symmetry of Sea-floor Spreading</i> Hörsaal X					11:15
					11:30
					12:30
					13:15
					14:15
9c	8c	4b	11a	WS Publication of reserach data	14:30
					16:15
					16:30
					19:00
					08:00
8b	10h	10a			08:30
					09:30
<i>Earthquakes</i> Hörsaal X					10:30
					11:30

Detailed programme Monday, 3 September 2018

	Hörsaal VIII	Hörsaal IX	Hörsaal III	Hörsaal V
08:00	Registration			
	<p>11c) Soft part preservation: The limits of the fossil record Chairs: <i>Jes Rust & Koen Stein</i></p>	<p>16b) Solid-fluid reactions in technical and Earth systems Chairs: <i>Thorsten Geisler- Wierwille & Andreas Lüttge</i></p>	<p>01b) Tracing life through deep time: New approaches & fresh perspectives Chair: <i>Jörn Peckmann</i></p>	<p>03b) The Eastern Mediterranean Chairs: <i>G. Zulauf, P. Xypolias</i></p>
09:00	<p><i>P. Martin Sander, Carole T. Gee, Thorsten Geisler-Wierwille, Jes Rust</i> The New DFG Research Unit 2685: The Limits of the Fossil Record – Analytical and Experimental Approaches to Fossilization</p>	<p><i>Lars Dohmen, Christoph Lenting, Thorsten Geisler</i> New insights into the glass corrosion process by in situ confocal Raman spectroscopy</p>	<p><i>Keynote: Simon K.-M. R. Rittmann</i> Biological methane production under putative Enceladus-like conditions</p>	<p><i>Keynote: Aral I. Okay</i> The story of Tethys in the Eastern Mediterranean – Black Sea region</p>
09:15	<p><i>Klaus Wolkenstein</i> Deciphering the organic constituents of fossils using modern analytical methods</p>	<p><i>Janis Heuer, Andreas Luttge</i> Kinetics of pipeline steel corrosion studied by Raman spectroscopy coupled Vertical Scanning Interferometry</p>		
09:30	<p><i>Fabian Matthias Gäb, Chris Ballhaus, Joachim Mogdans</i> Experimental data on constraining the Fossilization Window - the effects of pressure, salinity and the pH-Eh-values of seawater</p>	<p><i>Inna Kurganskaya, Rolf S. Arvidson, Cornelius Fischer, Sergey V. Churakov, Andreas Luttge</i> Fundamental problems in mineral-fluid reaction kinetics modelling: system size, parameterization, complexity and scalability</p>	<p><i>Sami Nabhan, Johanna Marin-Carbonne, Christoph Heubeck</i> The Paleoproterozoic sulfur cycle and the increasing influence of microbial sulfur oxidation</p>	<p><i>Nicolas Neuwirth, Silviu O. Martha, Gernold Zulauf</i> New structural and finite strain data from the Asteroussia Crystalline Complex (ACC) near Lendias (Crete): constraints on the tectonometamorphic evolution of the Uppermost Unit</p>
09:45	<p><i>Katrin Böhm, Thomas Tütken, Regina Mertz-Kraus, Denis Fougereuse, Thorsten Geisler</i> In vitro alteration of tooth enamel in isotope tracer solutions</p>	<p><i>Jonas Schabernack, Andreas Luttge, Inna Kurganskaya</i> Clay Mineral Growth: A Kinetic Monte Carlo Study</p>	<p><i>El Hafid Bouougri, Hubertus Porada</i> Diagnosis features for interplay of microbial mats shrinkage and growth: An actualistic approach for biosignatures in rock record and Earth's early biosphere</p>	<p><i>Semih Gürsu, S. Koksals, A. Möller</i> A new petrogenetic model for late neoproterozoic granitoids and gabbros in the Menderes Massif, Western Turkey: Implications for late-stage Cadomian magnetism in the Pan-African Mega-Cycle</p>
10:00	<p><i>Michael Scheil, Frank Tomaschek, Paul Martin Sander, Markus Lagos, Torsten Geisler</i> Age determination of fossil teeth and bones using the U-Pb decay system</p>	<p><i>Roman B. Schmidt, Jörg Göttlicher, Ingrid Stober</i> Sandstone-brine interaction and the formation of zeolites in experiments under geothermal conditions</p>	<p><i>Manuel Reinhardt, Jan-Peter Duda, Martin Blumenberg, Christian Ostertag-Henning, Joachim Reitner, Christine Heim, Volker Thiel</i> Tracing photic zone euxinia through time—implications from organic biomarker taphonomy</p>	<p><i>Maud J.M. Meijers, Andreas Mulch, Gilles Y. Brocard, Michael A. Cosca, Christian Teyssier, Cor G. Langereis, Donna L. Whitney</i> Late Miocene to Pliocene surface uplift of the Central Anatolian Plateau and its southern margin (Turkey)</p>
10:15	<p><i>H. Jonas Barthel, Jes Rust</i> Soft-tissue preservation of resin-embedded arthropods</p>	<p><i>Armin Zeh, Alexandre Cabral, Nikola Koglin</i> Rutile alteration and authigenic growth during fluid-rock interactions in metasandstones of the Moeda Formation, Minas Gerais, Brazil</p>	<p><i>Michelle M. Gehring, Achim Herrmann, Eva Stueeken</i> Crustal weathering at the mineral:microbe interface: The effects of localised O₂ whiffs and altered pH</p>	<p><i>Gernold Zulauf, Wolfgang Dörr, Linda Marko, Jochen Krahl</i> The Eo-Cimmerian evolution of the External Hellenides: Constraints from microfabrics and U-Pb detrital zircon ages of Upper Triassic (meta)sediments (Crete, Greece)</p>



Hörsaal I	Hörsaal X	Hörsaal VII	Hörsaal II	Hörsaal IV
	<p>09a) Geoscientific aspects of the safe management of mineral, hazardous and nuclear wastes Chairs: Daniel Höllen & Guido Deissmann</p> <p>Keynote: Reto Gieré, Christoph Maschowski Mineralogy and geochemistry of biomass-combustion waste</p>	<p>10f) Isotope analyses on calcareous and phosphatic fossils: Potentials and weaknesses Chairs: T. Tütken & T. Wotte</p> <p>Keynote: Christophe Lécuyer Combined use of 18O/16O and 34S/32S in apatite to decipher the ecology of vertebrates</p>	<p>10g) Reconstructing the ecological roles of extinct organisms... Chair: Kenneth de Baets</p> <p>Keynote: Tyler R. Lyson, Stephan Lautenschlager, Bruce Rubidge, Gabriel Bever Fossoriality and the origin of the turtle body plan</p>	<p>05b) Advanced techniques and case studies in sedimentary provenance analysis Chair: Hilmar von Eynatten</p> <p>Keynote: Nils Keno Lünsdorf, Jannick Kalies, Patrick Ahlers, István Dunkl, Hilmar von Eynatten High resolution heavy mineral analysis by automated Raman spectroscopy – Methodology and Application</p>
	<p>Klaus P. Sedlazeck, Daniel Höllen, Wolfgang Öfner, Peter Müller, Robert Mischitz, Gero Frisch, Michael Schlömann, Simone Schopf, Roland Pomberger Recovery of Metals from Metallurgical Waste Waters</p>	<p>Kevin Stevens, Katrin Hättig, Detlev Thies, Günter Schweigert, Jörg Mutterlose Diagenesis screening of fossil fish-teeth: Limits of cathodoluminescence-microscopy</p>	<p>Keynote: Imran A. Rahman Computational fluid dynamics and its applications in palaeontology</p>	<p>Sophia Rütters, Raimon Tolosana-Delgado, Jens Gutzmer, Enrico Kallmeier Application of SEM-based quantitative mineralogical analysis in the development of proxies for provenance and transport mechanisms of modern stream sediments</p>
	<p>Laurence Warr, Carolin Podlech, G. Grathoff, S. Kaufhold The role of accessory minerals on the stability of the bentonite backfill</p>	<p>Thomas Wotte, Christian B. Skovsted, Martin J. Whitehouse, Artem Kouchinsky A critical examination of bulk sample and in situ oxygen isotope analyses from phosphatic marine microfossils</p>	<p>Stephan Lautenschlager, Imran A. Rahman Fossil Replicants - Integrating Preserved and Theoretical Morphologies in Biomechanical Analyses</p>	<p>István Dunkl, Hilmar von Eynatten, Keno Lünsdorf, Sergio Andò, Andrew C. Morton What can we learn from the first interlaboratory round robin test for heavy mineral analysis?</p>
	<p>Christoph Lenting, Oliver Plümper, Matt Kilburn, Paul Guagliardo, Martina Klinkenberg, Thorsten Geisler Glass Corrosion: Towards a unifying mechanistic model</p>	<p>Johanna C. Obert, Denis Scholz, Thomas Felis, Jörg Lippold, Klaus P. Jochum, Meinrat O. Andreae Improved constraints on U-series open-system processes in fossil reef corals by combined Th/U, Pa/U and Ra/Th dating: A case study from Aqaba, Jordan</p>	<p>Carolin Haug Convergent evolution within malacostracan crustaceans, or how to transform a shrimp into a lobster</p>	<p>Jan Schönig, Guido Meinhold, Hilmar von Eynatten, Nils Keno Lünsdorf Advances in garnet-single grain analysis: Mineral inclusions record HP/UHP provenance</p>
	<p>F. Brandt, Philip Kegler, S. Lange, M. Klinkenberg, A. Bukaemski, G. Deissmann, S. Finkeldei, E. V. Alekseev, D. Bosbach Synthesis and characteristics of chromium doped UO₂-based model materials for single effect studies to understand the long-term matrix corrosion of spent nuclear fuels under disposal conditions</p>	<p>Eric O. Walliser, Bernd R. Schöne Were giant inoceramids chemosymbiotic bivalves? - A sclerochronological point of view</p>	<p>Rico Schellhorn Micro-computed tomography reveals head posture in Pleistocene rhinoceroses</p>	<p>Nina Albrecht, Andreas Pack, Mark Thiemens, Xiaolin Zhang, Yunpei Gao, Yanan Shen High-precision measurement of $\delta^{17}\text{O}$ and $\delta^{18}\text{O}$ in cap carbonates and their siliciclastic component</p>

Detailed programme Monday, 3 September 2018

	Hörsaal VIII	Hörsaal IX	Hörsaal III	Hörsaal V
10:30	Coffee break- exhibition			
11:00	Opening Ceremony – Welcome address by Prof. Dr. Dr. hc Michael Hoch, Rector of the University of Bonn Welcome addresses by the Presidents			
11:30	Plenary Lecture: Prof. Dr. Maria McNamara (University College Cork, Ireland) <i>The integument of fossil vertebrates: evolution, physiology</i>			
12:30	Lunch break			
14:00-15:00	11c) Soft part preservation: The limits of the fossil record <i>Chairs: Jes Rust & Koen Stein</i>	16a) Fluid-rock interaction: from mechanisms to rates... <i>Chairs: E. Schwarzenbach, R. Fonseca & O. Plümper</i>	05e) Quaternary Geochronology and Earth Surface Processes <i>Chairs: Silke Mechnich, Dominik Brill & Jan Blöthe</i>	03b) The Eastern Mediterranean <i>Chairs: Gernold Zulauf, Paris Xypolias</i>
14:00	<u>Bastian Mähler</u> , Gabriele Kühl, Hans-Jürgen Ensikat, Natascha Kuhlmann, Jes Rust, Thorsten Geisler Experimental alteration of a carapace cuticle of <i>Hemigrapsus takanoi</i> (Decapoda: Varunidae)	Richard Wirth, <u>Jörn H. Kruhl</u> , Luiz F.G. Morales, Anja Schreiber Partially open grain and phase boundaries as fluid pathways in magmatic and metamorphic rocks: new observations	<i>Keynote: Tobias Lauer</i> , Marcel Weiss Luminescence dating of Middle-Pleistocene glacial cycles and their implications for hominin presence in Germany	<u>Paris Xypolias</u> , Nikolaos Gerogiannis, Eirini Aravadinou, Vasileios Chatzaras, Konstantinos Papapavlou, Dimitrios Spanos Deformation history of the Cycladic Blueschist unit (Greece)
14:15	<u>Leif Moritz</u> , Thomas Wesener 99 my of morphological stasis in millipedes: CT scans, 3D-visualisation and gonopod reconstruction of a millipede family from Cretaceous Burmese amber (Diplopoda: Chordeumatida: Heterochordeumatidae)	Florian Fousseis, Sina Marti, Berit Schwichtenberg, Ian Butler Coupling between deformation, dehydration and transport properties in evaporites		<u>Georg Löwe</u> , Susanne Schneider, Kamil Ustaszewski Dating extensional deformation within an accretionary prism by means of Ar/Ar-in-situ geochronology
14:30	05c) Tectonics & Sedimentation - From Fractures to Basins <i>Chairs: Tom McCann & Linda Prinz</i>	<u>Francois X. Passelegue</u> , Nicolas Brantut, Thomas Mitchell Do injection-rate control the onset of fault reactivation?	<u>Ariane Binnie</u> , Tibor J. Dunai, Steven A. Binnie, Pia Victor, Gabriel González Evidence for the Early-Middle Pleistocene Transition in Northern Chile	<u>William B. F. Ryan</u> Mediterranean Tectonics Unique to Its Salinity Crisis
14:45	<u>Peter Klitzke</u> , Dieter Franke, Rüdiger Lutz, Lutz Reinhardt, Axel Ehrhardt The Olga Basin in the northern Norwegian Barents Sea (Arctic) – a Caledonian or Timanian affinity?	<u>Jürgen Lang</u> , Patrick A. Meere, Richard Unitt, Sean Johnson Vein-hosted Copper Deposits and Hydrothermal Processes of SW Ireland	<u>Joel Mohren</u> , Steven A. Binnie, Damián A. López, Benedikt Ritter, Tibor J. Dunai Using cosmogenic nuclides to trace a steep climate gradient over a short distance in hyperarid northern Chile	
15:00	Coffee break- exhibition			



Hörsaal I	Hörsaal X	Hörsaal VII	Hörsaal II	Hörsaal IV
of the Societies: DGGV – Prof. Dr. Jan Behrmann, DMG – Prof. Dr. Reiner Klemm, PalGes – Prof. Dr. Hans Kerp, DVGeo – Prof. Dr. Martin Meschede HS X				
<i>and behaviour</i> Hörsaal X				
<p>13a) Rock rheology, deformation transients, and the earthquake cycle Chairs: <i>Livia Nardini & Bernhard Schuck</i></p> <p>Keynote: Baptiste Rousset, William Frank, Cecile Lasserre, Nikolai M. Shapiro, Roland Burgmann, <u>Michel Campillo</u> Deformations and the combined analysis of seismic and GPS weak signals</p>	<p>06b) Impact cratering throughout the solar system Chairs: <i>Ulrich Riller & Michael Poelchau</i></p> <p><u>Jörg Fritz</u> Shower of extraterrestrial material onto the Earth-Moon system</p> <p>Gerwin Wulf, Stefan Hergarten, Thomas Kenkmann Remote Sensing Analysis and Landscape Evolution Modeling of the Bosumtwi Impact Structure, Ghana: Indications for Ejecta Ramparts</p>	<p>13b) Geophysics and the new Standortauswahlgesetz Chair: <i>Christian Buecker</i></p> <p>Keynote: <u>Michael Kühn</u>, Oliver Heidbach Utilisation of the subsurface for the disposal of high-level radioactive waste</p> <p><u>Dirk J. Orlowsky</u>, Bodo Lehmann Geophysikalische Untersuchungsmethoden für die Standortsuche</p>	<p>10g) Reconstructing the ecological roles of extinct organisms... Chair: <i>Joachim Haug</i></p> <p><u>Pascal Abel</u>, Kenneth de Baets, Manuel Steinbauer Macroecological patterns in Paleozoic ammonoids</p> <p><u>Kenneth De Baets</u>, Christian Klug, Dieter Korn Exploring the limits of ammonoid morphospace</p>	<p>05b) Advanced techniques and case studies in sedimentary provenance analysis Chairs: <i>M. Hinderer & T. McCann</i></p> <p><u>Guido Meinhold</u>, M. Perschl, M. Schröpfer, A. Steichert, J.O.R. Ebbestad, A.E. S. Högeström, S. Jensen, T. Palacios, M. Høyberget, H. Agić, W.L. Taylor Composition and provenance of upper Neoproterozoic and Cambrian sediments from Finnmark, Arctic Norway: Insights from a multi-method approach on the Digermulen Peninsula</p> <p><u>Wolfgang Franke</u>, Hermann Huckriede, Martin Salamon, Volker Wrede Zircons to the front: a 80 Ma record of foreland sedimentation in the Rheno-Hercynian Variscides</p>
<p><u>Boris Reznik</u>, Leo Henrichs, Mario Walter, Frank Schilling Effect of laboratory high-temperature cyclic loading on magnetic properties and microstructure of magnetite from an iron ore</p>	<p><u>Alexander Rocholl</u>, Jean Pohl, Madelaine Böhme No isotopic dating needed: Pinning down the Ries meteorite impact at Nördlingen, South Germany, at 14.870 ± 0.005 Ma by solely geological tools</p>	<p><u>Frank R. Schilling</u>, Birgit I.R. Müller How Deep is Deep Enough for a Safe Repository?</p>	<p><u>Kai R. K. Jäger</u>, Richard L. Cifelli, Thomas Martin Dental function, tooth morphology and occlusion in basal Triconodontidae</p>	<p><u>Roland Nádaskay</u>, Jiří Žák, Jiří Sláma, Tamara Sidorinová, Jaroslav Valečka Deciphering the late Paleozoic to Mesozoic tectonosedimentary evolution of the northern Bohemian Massif from detrital zircon geochronology and heavy mineral provenance</p>
<p><u>Lina Seybold</u>, Claudia A. Trepmann Stress history during exhumation from HP-LT metamorphic conditions recorded by microstructures from an extensional shear zone in the Talea Ori, central Crete</p>	<p>Susann Siegert, <u>Lutz Hecht</u>, Michael J. Branney Geochemical constraints on the formation and origin of melt-bearing impact breccias: The Ries impact structure example</p>		<p><u>Anneke H. van Heteren</u>, L. R. Tsang, Peter Ross, J. A. Ledogar, M. R.G. Attard, D. Sustaita, P. Clausen, P. Scofield, S. Wroe, G. Sansalone Geometric morphometrics and finite element analyses reveal the Haast's eagle (Harpagornis moorei) to be a mixed predator-scavenger</p>	<p><u>Pierre Müller</u>, A. Langone, M. Patacci, A. Di Giulio The role of the lower plate in providing provenance during Alpine convergence inception: Insights from detrital signatures of the Western Ligurian Flysch accretionary complex</p>

Detailed programme Monday, 3 September 2018

	Hörsaal VIII	Hörsaal IX	Hörsaal III	Hörsaal V
15:30-16:30	05c) Tectonics & Sedimentation - From Fractures to Basins <i>Chairs: Tom McCann & Linda Prinz</i>	16a) Fluid-rock interaction: from mechanisms to rates... <i>Chairs: E. Schwarzenbach, R. Fonseca & O. Plümpfer</i>	05e) Quaternary Geochronology and Earth Surface Processes <i>Chairs: Silke Mechernich, Dominik Brill & Jan Blöthe</i>	
15:30	<u>Thomas Voigt</u> , Benjamin Leopold, Robert Scheuer, Istvan Dunkl Late Eocene start of Cenozoic Deformation in the Central Tien Shan – evidence from the western Ili Basin (Kazakhstan)	<i>Keynote: Sarah Incel</i> , Loïc Labrousse, Nadège Hilairet, Timm John, Julien Gasc, Feng Shi, Yanbin Wang, Torgeir B. Andersen, François Renard, Bjørn Jamtveit, Alexandre Schubnel Reaction-induced faulting in granulite causes earthquakes in the lower continental crust	<u>Thomas Mann</u> , André Wizemann, Paul S. Kench, Jamaluddin Jompa, Hildegard Westphal Chronological reconstruction of reef island formation in the Spermonde Archipelago, Indonesia	
15:45	<u>Philippos Garefalakis</u> , Fritz Schlunegger Tectonic controls on the Burdigalian transgression of the Upper Marine Molasse inferred from the stratigraphic architecture		<u>Rasmus C. Thiede</u> , B. Bookhagen, D. Scherler, S. Dey, P. Eugster, M. Nennowitz, E. Sobel, K. Stübner, R. Arrowsmith, V. Jain, M. Strecker Fault activity, tectonic segmentation, and deformation patterns in the western Himalaya on geological timescales inferred from landscape morphology and thermochronology – a summary	
16:00	<u>Sandra Franke</u> , Matthias Franz The discontinuous Lower Cretaceous of NE Germany: The missing link of Late Cimmerian Unconformity and Late Cretaceous inversion?	<u>Ramon Reifenröther</u> , Carsten Münker, Birgit Scheibner Evidence for selective tungsten enrichment in different sections of altered oceanic crust	<u>Gösta Hoffmann</u> , Alina Ermertz Geomorphological, archeological and geological evidence for neotectonic activity on a passive continental margin (Oman)	
16:15	<u>Jashar Arfai</u> , Gesa Kuhlmann, Christoph Gaedicke Iceberg scour marks in the northwestern offshore Germany	<u>Alok Chaudhari</u> , Joël Brugger, Andrew Friedrich, Rahul Ram, Barbara Etschmann Fluid-rock reactions in the Cu-S system: an experimental investigation of the mineral replacement of chalcopyrite by chalcocite		
16:30	16:30-18:00 Poster Social >> Sessions: 2c 5b 5c 5e 6b 9a 12a 13a 13b 14a 16a 16b 16c 17a			
17:00	17:00-18:30 Council Meeting DGGV Senatssaal			
18:00				
18:30	Public evening lecture: Prof. Dr. Mojib Latif (GEOMAR, Kiel) Herausforderung Klimawandel Hörsaal X			



Hörsaal I	Hörsaal X	Hörsaal VII	Hörsaal II	Hörsaal IV
13a) Rock rheology, deformation transients, and the earthquake cycle <i>Chairs: Livia Nardini & Bernhard Schuck</i>	06b) Impact cratering throughout the solar system <i>Chairs: Ulrich Riller & Michael Poelchau</i>	13b) Geophysics and the new Standortauswahlgesetz <i>Chair: Christian Buecker</i>	12a) Reconstructing lost worlds - applications of microfossils <i>Chairs: Anna Pint & Patrick Grunert</i>	
<u>Francois X. Passelegue</u> , Alexandre Schubnel, Giulio DiToro From Fault Creep to Slow and Fast Earthquakes in Carbonates	<u>Ulrich Riller</u> , Stephani Teuber Viscous relaxation of crust underlying large terrestrial impact craters: Evidence from the Sudbury Impact Structure, Canada, and analogue experiments	<u>Thomas Burschil</u> , Hermann Bunes, David C. Tanner, Helga Wiederhold, Gerald Gabriel Shallow high-resolution seismic studies of glacial buried structures	<i>Keynote: Gerhard Schmiedl</i> Applicability of benthic foraminifera in marine paleoclimate research	
	<u>Felix M. Schulte</u> , Ulrich Riller Dynamics and solidification of different impact melt zones during peak-ring formation of the Chicxulub crater, Mexico	<u>Kristof M. Schuster</u> In-situ rock characterization with Mini-Seismic Methods in underground facilities		
	<u>Jens O. Ormö</u> , S. P. S. Gulick, M. T. Whalen, K. Goto, D. T. King, Jr., E. Sturkell, J. V. Morgan Graded suevite in the IODP-ICDP expedition 364 Chicxulub M0077 Core: Clues to crater modification and material transport	<u>Sven Fuchs</u> , Andrea Förster Thermal characterization of potential nuclear waste repository locations: a multi-disciplinary and multi-scale approach	<u>Pratul K. Saraswati</u> Oxygen isotopes and Mg/Ca of larger benthic foraminifera: Potentials and pitfalls	
		17:30-18:30 General assembly DMG		

Detailed programme Tuesday, 4 September 2018

	Hörsaal VIII	Hörsaal IX	Hörsaal III	Hörsaal V
08:00	Registration			
08:30-09:30	02a) InterRidge: Multidisciplinary research on oceanic ridges <i>Chairs: Philipp Brandl & Jürgen Koepke</i>	16a) Fluid-rock interaction: from mechanisms to rates... <i>Chairs: E. Schwarzenbach, R. Fonseca & O. Plümper</i>	01c) Evolution of the Early Earth's mantle-crust and ocean-atmosphere systems <i>Chairs: A. Zeh, E. Hoffmann, S. Weyer & F. Kurzweil</i>	
08:30	<u>Juergen Koepke</u> , D. Garbe-Schönberg, T. Mueller, S. Müller, D. Mock, H. Strauss, S. Schuth, B. Ildefonse Wadi Gideah (Sumail Ophiolite, Sultanate Oman): A reference section through the lower fast-spreading oceanic crust	<u>Johannes Stefanski</u> , Sandro Jahn Rare earth element speciation in aqueous brines under subduction zone conditions: Ab-initio molecular dynamics simulations and free energy exploration	<i>Keynote: Vinciane Debaille, Camille Francois, Emmanuelle Javaux, Craig O'Neill, Alan D. Brandon</i> Archean geodynamics and the onset of plate tectonics	
08:45	<u>Dominik Mock</u> , B. Ildefonse, D. Garbe-Schönberg, S. Müller, K. Faak, O. Namur, J. Koepke What Causes the Layering of Gabbros? – A Microanalytical and Microstructural Investigation on the Layering of two Gabbro Sections in the Oman Ophiolite	<u>Elisabete T. Pedrosa</u> , Cornelius Fischer, Andreas Lüttge Rate dissolution variability of sandstone calcite cement		
09:00	<u>Samuel J. Müller</u> , B. Zihlmann, D. Garbe-Schönberg, D.A.H. Teagle, J. Koepke Mass transfer at hydrothermal fault zones in the lower oceanic crust: An example from Wadi Gideah, Samail ophiolite, Oman	<u>Mathias Peter</u> , Inna Kurganskaya, Andreas Lüttge Feldspar surface evolution during solid-fluid reactions - a Kinetic Monte Carlo Study	<u>J. Elis Hoffmann</u> , Emmanuel Musese, Patrick Ganz, Alfred Kröner, Carsten Münker, Hf-Nd-Os isotopic and trace element constraints on the magmatic history of the ca. 3.46 Ga Dwalile	
09:15	<u>Dominic Wölki</u> , M. Regelous, K. Haase, C. Beier The orientation of the paleo-subduction zone beneath the Troodos Ophiolite	<u>Ricarda D. Rohlf</u> s, Andreas Lüttge Dissolution Kinetics near Etch Pits – a Kinetic Monte Carlo Study	<u>Stefan T.M. Peters</u> , Andreas Pack >2.74 Ga meteoric waters recorded in triple O isotope compositions of metamorphic peridotites	
09:30	Coffee break & exhibition			



Hörsaal I	Hörsaal X	Hörsaal VII	Hörsaal II	Hörsaal IV
	<p>06b) Impact cratering throughout the solar system <i>Chairs: Ulrich Riller & Michael Poelchau</i></p>	<p>14a) Computational geosciences <i>Chairs: Mario Valdivia-Manchego, Gösta Hoffmann & Mathias Knaak</i></p>	<p>12a) Reconstructing lost worlds - applications of microfossils <i>Chairs: Anna Pint & Patrick Grunert</i></p>	
	<p><i>Lidia Pittarello, Ludovic Ferrière, Gordon R. Osinski</i> Preferred orientation of shock-induced microstructures in quartz and feldspar grains as marker for shock wave propagation direction</p>	<p><i>Keynote: Tobias Kurz</i> State of the art 2D-3D geospatial methods for surface modeling and characterisation in the geosciences</p>		
	<p><i>Kathryn H. Harriss, Mark Burchell</i> Shock pressure experiments on single silicate minerals</p>			
	<p><i>Michael Poelchau, Thomas Kenkmann, Rebecca Winkler</i> Shock deformation in Calcite: Results from Impact Cratering Experiments into Marble</p>	<p><i>Lena Merz, Uwe Baier, Christoph Hilgers</i> Application of 3D outcrop data in reservoir geology on the examples of fractured carbonates in the Upper Rhine Graben</p>	<p><i>Patrick Grunert, Ángela García Gallardo, Antje H.L. Voelker, Isabel Mendes, Werner E. Piller</i> Re-evaluation of benthic foraminifera as indicators of bottom current strength</p>	
	<p><i>Amar Agarwal, Michael Poelchau, Thomas Kenkmann</i> Plaeostress and final strain estimation in experimental impact crater: clues to shock wave behavior</p>	<p><i>Felix Hofmayer, Bettina Reichenbacher</i> Spatial reconstruction of the Burdigalian (early Miocene) depositional history in Bavaria (eastern North Alpine Foreland Basin)</p>	<p><i>Anne Förster, Olaf Elicki</i> Benthic and planktic foraminiferal morphogroups from the pre-Messinian of Sardinia and Sicily – significance for palaeoecological reconstructions</p>	

Detailed programme Tuesday, 4 September 2018

	Hörsaal VIII	Hörsaal IX	Hörsaal III	Hörsaal V
10:00-11:15	02a) InterRidge: Multidisciplinary research on oceanic ridges <i>Chairs: Philipp Brandl & Jürgen Koepke</i>	16c) Subduction zone input, processes and output <i>Chair: Horst Marschall</i>	01c) Evolution of the Early Earth's mantle-crust and ocean-atmosphere systems <i>Chairs: A. Zeh, E. Hoffmann, S. Weyer & F. Kurzweil</i>	03c) The Alpine-Mediterranean chain - looking from surface to depth... <i>Chair: Leni Scheck-Wenderoth</i>
10:00	Philipp A. Brandl, Christoph Beier, Lars H. Rüpke, Karsten M. Haase, Colin W. Devey, Marcel Regelous, Folkmar Hauff The Foundation-PAR plume-ridge interaction: constraints on competing forces and the structure of oceanic lithosphere	Oliver Plümper, Chayenne Janssen, David Wallis, Markus Ohl, Helen E. King, Marco Scambelluri Syntectonic serpentinite dehydration within subduction zones	Julia van de Löcht, Carsten Münker, J. Elis Hoffmann, Peter Sprung, Minik T. Rosing Earth's oldest mantle peridotites may originate from a supra-subduction zone setting	Peter Biermanns, Benjamin Schmitz, Janis Pingel, Kamil Ustaszewski, Kujtim Onuzi, Klaus Reicherter Dry valley race: What geomorphology tells us about active deformation in the Adria-Eurasia collision zone
10:15	Guillaume Jacques, Henrike Franke, Ulrich Schwarz-Schampera, Folkmar Hauff Major, trace element and Sr-Nd-Hf-Pb isotopic compositions of basalts from the southern Central Indian Ridge and the Rodrigues Triple Junction	Christian Soder, Michael Burchard, Thomas Ludwig, Johannes Grimm Melting of felsic continental crust at mantle depth: experimental constraints and implications for ultrapotassic magmatism	Jonas Tusch, Mike Jansen, Chris S. Marien Tungsten isotope systematics in rocks from the Pilbara Craton, Australia	Cameron Spooner, Magdalena Scheck-Wenderoth, Judith Sippel, Hans-Jürgen Götze, Jörg Ebbing, Josef Sebera, György Hetényi 3D Structural Model – Preliminary results from a gravity constrained model of the Alps
10:30	Vera Schlindwein, Frank Krüger, Florian Schmid, Mechita Schmidt-Aursch, Wojciech Czuba, Tomasz Janik KNIPAS – exploring active seafloor spreading processes at segment-scale	Sebastian Weber Fluid-driven transformation of glaucophanite to an omphacite-vein assemblage under near peak conditions in the continental crust, Mt. Emilius, Italian Western Alps	Jochen Kolb, Annika Dziggel Why are hypozonal orogenic gold deposits restricted to Precambrian orogens?	Ruth Keppler, Michael Stipp, Michael J. Schmidtke, Jacek Kossak, Nikolaus Froitzheim Modeled average elastic anisotropies of upper and lower crustal units in the Alps using crystallographic preferred orientations of rocks of the Adula Nappe (Switzerland) and the Ivrea Zone (Italy)
10:45	Florian Schmid, Maike Peters, Maren Walter, Jürgen Sültenfuß, Colin Devey Hydrothermal plumes and $\delta^3\text{He}$ anomalies above the Southern Mid-Atlantic Ridge (13°-33°S) indicating previously unknown active vent sites	Simona Ferrando, Maria L. Frezzotti, Maurizio Petrelli Slab-derived supercritical fluids: trace-element evolution and diagnostic fractionations	Christoph Heubeck, BASE Team The ICDP BASE Project: Barberton Archean Surface Environments	Michael J. Schmidtke, Ruth Keppler, Nikolaus Froitzheim, Michael Stipp Calculating elastic anisotropies of rocks from oceanic and continental crust and the upper mantle from the Western Alps
11:00	Lucy Schlicht, Eoghan Reeves, Adam Schaen, Simone Kasemann, Anette Meixner, Wolfgang Bach Boron systematics of vent fluids from peridotite-hosted hydrothermal systems	Raúl O. C. Fonseca, Lina T. Michely, Maria Kirchenbaur, Felipe P. Leitzke, Chris S. Marien, Renat Almeev, Axel Gerdes Macroscopic globules in glasses from the Izu-Bonin-Mariana fore-arc as a record of silicate melt-fluid exsolution during subduction initiation	Chris S. Marien, Sebastian Viehmann, Axel Gerdes, Jonas Tusch, Martin Julian van Kranendonk, Carsten Münker Pristine $87\text{Sr}/86\text{Sr}$ isotope compositions of Paleo- and Mesoarchean seawater inferred from carbonate interstitials in pillow lavas from the Pilbara Craton, Western Australia	Christoph Grützner Active faulting in the eastern Southern Alps-Dinarides – insights from field studies, geophysics, and high-resolution topography data
11:15				
11:30	Plenary Lecture: Prof. Balz Kamber (Trinity College Dublin, Ireland) <i>Deep Earth controls over the surface environment on the early Earth</i>			



Hörsaal I	Hörsaal X	Hörsaal VII	Hörsaal II	Hörsaal IV
<p>05f) Integrated chemostratigraphy and applications Chair: <i>André Bornemann</i></p>	<p>10c,e) Part 1: Bone histology Chairs: <i>Dorota Konietzko-Meier & Dawid Surmik</i></p>	<p>14a) Computational geosciences Chairs: <i>Mario Valdivia-Manchego, Gösta Hoffmann & Mathias Knaak</i></p>	<p>12a) Reconstructing lost worlds - applications of microfossils Chairs: <i>Anna Pint & Patrick unert</i></p>	<p>08e) New Insights into the Quaternary Vegetation and Climate History Chairs: <i>S. Stolzenberger, A. Miebach & N. Pickarski</i></p>
<p><i>Alena Ebinghaus, David Jolley, David Kemp</i> A high-resolution continental case study of orbital and solar forced environmental changes during the Early Danian Dan-C2 hyperthermal</p>	<p><i>Keynote: Koen HW Stein</i> Black beauties: histology and geochemistry of <i>Iguanodon bernissartensis</i> from the Early Cretaceous of Bernisart, Belgium</p>	<p><i>Julia Onneken, Mareike Henneberg, Detlef Schlüter</i> 3D models of internal structures in Rotliegend-Zechstein salt structures in the Glückstadt Graben, Northern Germany</p>	<p><i>Mike Reich, Bork Ilsemann, Manfred Kutscher, Tanja R. Stegemann</i> Infaunal sea cucumbers (Echinodermata: Holothuroidea) from the Jurassic of Europe</p>	<p><i>Dominik Schmitt, Eberhard Gischler, Flavio Anselmetti, Hendrik Vogel</i> The late Holocene, high-resolution storm and climate archive of the Blue Hole, Lighthouse Reef, Belize (Central America)</p>
<p><i>Roland Nádaskay, YV. Kochergina, S. Čech, L. Švábenická, J. Valečka, B. Čejková</i> Integrated stratigraphy of an offshore environment influenced by intense siliciclastic supply: implications for Coniacian tectonosedimentary evolution of the West Sudetic area (NW Bohemian Cretaceous Basin, CZ)</p>		<p><i>Tatjana Kühnlenz, Herbert Kunz, Jörg Hammer, Sandra Fahland, Matthias Beushausen, Detlef Schlüter</i> Transfer of geological 3D models into numerical models</p>	<p><i>Hathaihip Thassanapak, Mongkol Udchachon, Jirasak Chareonmit, Clive Burrett</i> Early Permian radiolarians from Phi Phi Island, Southern Thailand</p>	<p><i>Valeska Decker, Susanne Lindauer, Jessica Landgraf, Gösta Hoffmann</i> Paleolagoonal archives along the Arabian Sea reveal Holocene climate and sea-level variability</p>
<p><i>Hauke Thöle, Ulrich Heimhofer, André Bornemann, Jochen Erbacher, Friedrich W. Luppold</i> The use of XRF chemostratigraphy to develop a sequence stratigraphic framework for the mudstone-dominated Lower Cretaceous succession in the eastern Lower Saxony Basin, Northern Germany</p>	<p><i>Elzbieta M. Teschner, Dorota Konietzko-Meier</i> Comparison of <i>Metoposaurus</i>-bearing localities – how can paleohistology help us to understand fossil ecosystems</p>	<p><i>Marco Wolf, Heidrun Louise Stück, Fabian Jähne-Klingenberg</i> Salt structure modelling in the central German North Sea: An approach to geological consistent 3D models</p>	<p><i>Mongkol Udchachon, Hathaihip Thassanapak, Clive Burrett</i> Reworked conodonts from the Lower Permian carbonate turbidites in the Inthanon Terrane, Northern Thailand and their tectonic significance</p>	<p><i>Igor Obrecht, L. Wörmer, S. Alfken, J. Wendt, M. Elvert, J. S. Lipp, V. B. Heuer, H. Taubner, P. L. Buttigieg, K.-U. Hinrichs</i> Zooming into inter-annual climatic variations from marine and lacustrine sediments: presenting a novel approach in ultra-high-resolution lipid biomarker-based paleoclimate research</p>
<p><i>Markus Wilmsen, Vachik Hairapetian, Amir Ahmadi, Ziba Shojaei, Michaela Berensmeier, Mahmoud Reza Majidifard</i> Integrated stratigraphic dissection of the Upper Albian to Lower Turonian of Esfahan (Iran): elucidating the enigma of the Glauconitic Limestone</p>	<p><i>Dorota Konietzko-Meier, P. Martin Sander, Tanja Wintrich</i> Did <i>Stereospondyli</i> undergo metamorphosis? A mystery signal visible in histology of large temnospondyl humerus from the Rhaetian (late Triassic) of Bonenburg (Westphalia, Germany)</p>	<p><i>Elnaz Raghmi, Christoph Schrank, Jörn H. Kruhl</i> 3D modelling of the effect of thermal-elastic stress on grain-boundary opening in quartz grain aggregates</p>	<p><i>Anna Saupe, Sven Hartenfels, Ralph T. Becker</i> Biofacies analysis of agglutinated foraminifers along an Upper Devonian transect from Central Europe to North Africa</p>	<p><i>Tobias Fischer, Andreas Koutsodendris, André Bahr, Jörg Pross</i> Climate dynamics during Marine Isotope Stage 19 in Tenaghi Philippon (NE Greece)</p>
<p><i>Michaela Berensmeier, Bettina Dölling, Christian Linert, Markus Wilmsen</i> The challenge of correlating condensed and patchy sections by using a multi-approach method: Integrated results from Upper Cretaceous epicontinental shelf (Münsterland Cretaceous Basin, Germany)</p>	<p><i>Xaver Donhauser, Nicole Klein, P. Martin Sander</i> Bone histology and growth record of the first juvenile individuals of <i>Plateosaurus engelhardti</i></p>			<p><i>Iuliana Vasiliev, Angelica Feurdean, Gert-Jan Reichart, Andreas Mulch</i> Onset of continentalisation in the circum-Black Sea region during the latest Miocene: a multiproxy approach</p>
Hörsaal X				

Detailed programme Tuesday, 4 September 2018

	Hörsaal VIII	Hörsaal IX	Hörsaal III	Hörsaal V
12:30	LUNCH BREAK			
14:00-15:00	03a) Investigating mountains with a microscope Chair: <i>Silvio Ferrero</i>	17a) Young Scientist Session Chairs: <i>Iris Arndt, Marko Hornschu & Michaela Spiske</i>	01a) Cosmochemistry - from dust to planets Chairs: <i>Stefan Peters & Mario Fischer-Gödde</i>	06a) Natural Hazards: earthquakes, tsunamis, landslides Chairs: <i>C. Grützner & S. Mechnerich</i>
14:00	Keynote: <u>Matthias Konrad-Schmolke</u> From orogen to atomprobe – Micro-geochemical investigations of disequilibrium textures to reveal geodynamic processes	<u>Roman L. de Giorgi</u> , Jes Rust Synecological studies of the Lower Devonian Hunsrück Slate Fauna	<u>Ninja Braukmüller</u> , Frank Wombacher, Carsten Münker A hockeystick volatile element depletion pattern for the Earth	<u>Jorien L. N. van der Wal</u> , Veit C. Nottebaum, Klaus Reicherter, Georg Stauch, Christopher Weismüller, Frank Lehmkuhl Neotectonics along the Bogd Fault Zone, SW Mongolia - Effects on the evolution of the Orog Nuur (Lake) Basin?
14:15		<u>Christine G. Grabatin</u> , Jes Rust, Jan A. Rasmussen, Henrik Madsen Early evolution and palaeobiology of pygmy grasshoppers (Orthoptera: Tetrigidae) with the description of new genera and species	<u>Dennis Harries</u> , Moritz Barth, Falko Langenhorst Extreme nebular nitrogen processing documented by iron nitride in Acfer 094?	<u>Mike Oliver Frenken</u> , Piero Bellanova, Jan Schwarzbauer, Klaus Reicherter Organic-geochemical investigation of far-field tsunami deposits of Hawai'i
14:30	Leo Millonig, <u>Axel Gerdes</u> , Richard Albert, J.J. Ague, Dov Avigad In-situ U-Th-Pb dating of metamorphic garnet, staurolite and accessory phases	<u>Christoph K. Steinhoff</u> , Nadine Pickarski, Thomas Litt 14C AMS dating of enriched pollen samples – Flow Cytometry as an optimized purification application	<u>Christian Vollmer</u> , Jan Leitner, Demie Kepaptsoglou, Quentin M. Ramasse, Peter Hoppe Iron Oxidation State of Amorphous Silicates and Functional Chemistry of Organic Matter in the Pristine Carbonaceous Chondrite Maribo	<u>Piero Bellanova</u> , Denis Jarmul-kowicz, Christina Eickers, Mike Frenken, Tamer Gökdemir, Naomi Fischer, Jan Schwarzbauer, Klaus Reicherter Organic-geochemical characteristics of 2011 Tohoku-Oki tsunami deposits in northern Japan
14:45	<u>Tao Peng</u> , Axel Gerdes, Richard Albert, Leo Millonig, Linda Marko, L.S. Zeng, C.M. Wu In-situ LA-ICP-MS U-Th-Pb monazite dating of metapelites from Namche Barwa area, Eastern Tibet, China	Anna-Lena Zocher, Dennis Krämer, Gila Merschel, Michael Bau Element distribution including rare earth elements and yttrium in fruit bodies of the bolete mushroom <i>Suillus luteus</i>	<u>Ramakant Mahajan</u> , Amit Basu Sarbadhikari, M. S. Sisodia Multiple impactors on Asteroid Vesta: noble gas and nitrogen study in the grain separates of Lohawat howardite	<u>Michaela Spiske</u> , Jessica Pilarczyk, Stephen Mitchell, Robert Halley Sedimentary and erosional evidence of hurricane Irma on the British Virgin Islands
15:00	Coffee break- exhibition			



Hörsaal I	Hörsaal X	Hörsaal VII	Hörsaal II	Hörsaal IV
			AK Mikropaläontologie	
07c) Minerals and Materials: Properties and Structures <i>Chairs: Jürgen Schreuer & Nasser Hbib</i>	10c,e) Part 2: Tetrapod locomotion <i>Chairs: J. N. Lallensack & Michael Buchwitz</i>	09d) Magmatic Ore Deposits <i>Chairs: Malte Junge, Felix Kaufmann & Lennart Fischer</i>	02c) Fifty Years with Plate Tectonics – Move on <i>Chairs: Anke Friedrich & Thorsten Nagel</i>	08a) Groundwater and climate change <i>Chairs: Christoph Neukum & Traugott Scheytt</i>
<u>Ahmed Gadelmawla</u> , Iris Spiess, Johannes Birkenstock, Michael Fischer, Reinhard X. Fischer In-Situ Characterization and Thermal Decomposition Behavior of Ammonium-Exchanged Chabazites	<u>Aurore Canoville</u> , Lindsay E. Zanno, Mary H. Schweitzer New data on avian medullary bone – implications for the identification of homologous tissues in extinct archosaurs	Keynote: <u>Thomas Aiglsperger</u> , Joaquín Proenza, Francisco Longo Mobilization of platinum-group elements and the neof ormation of platinum-group minerals under sup ergene conditions	<u>Hilmar von Eynatten</u> , István Dunkl, Veit-Enno Hoffmann, Annemarie Simon, Jonas Kley Mesozoic-Cenozoic exhumation and uplift in Central Europe – part I: spatial extent, pattern, magnitude and timing	Keynote: <u>Richard Taylor</u> Groundwater in a warming world: the impact of changing climate extremes
<u>Stephan Lenz</u> , Johannes Birkenstock, Lennart A. Fischer, Hartmut Schneider, Reinhard X. Fischer Sillimullite – a new mineral species intermediate between sillimanite and mullite	Keynote: <u>Holger Preuschoft</u> Locomotion on limbs		<u>Jonas Kley</u> , Fabian Jähne-Klingberg, Hilmar von Eynatten, István Dunkl Mesozoic-Cenozoic exhumation and uplift in Central Europe – part II: mechanisms and diagnostic criteria	
<u>Kerstin Stange</u> , Johannes Kehren, Nadine Böhme, Sinje Zimmer, Thorsten Geisler In situ Hyperspectral Raman Imaging: A new Method to investigate Solid-Solid Reactions in Ceramic Materials during Firing		<u>Tom Járóka</u> , Thomas Seifert, Jörg A. Pfänder, Sebastian Staude, Henning V.L. Seibel, Joachim Krause, Matthias E. Bauer Insights into geology and genesis of the Angstberg intrusive body and its associated Ni-Cu-(PGE) sulfide mineralization (Lusatian Block, Northern Bohemian Massif, Germany)	<u>Florian Kurzweil</u> , Carsten Münker, Ronny Schoenberg The stable tungsten isotope composition of modern igneous reservoirs	<u>Carina Furusho</u> , Klaus Gørgen, Jessica Keune, Ketan Kulkarni, Bibi Naz, Wendy Sharples, <u>Stefan Kollet</u> A groundwater climatology over Europe applying the Terrestrial Systems Modeling Platform, TerrSysMP
<u>Kirsten Schulze</u> , Tiziana Boffa Ballaran, Martha G. Pamato, Alexander Kurnosov, Konstantin Glazyrin, Anna Pakhomova, Hauke Marquardt A high-pressure structural analysis of AlSiO₃OH Phase Egg	<u>Maren Jansen</u> , Michael Buchwitz, Johan Renaudie, Sebastian Voigt Reconstruction of an ancestral amniote trackmaker based on trackway data, track-trackmaker correlation and phylogeny	<u>Melanie Lorenz</u> , Uwe Altenberger, Robert Trumbull, Raúl Lira, Nicolas Viñas, Mónica G. López de Luchi An unusual Fluorbritholite-(Ce)-rich REE deposit in a fenite body of Devonian granites, Central Argentina	<u>Jacob Geersen</u> A comparison of lower plate structure and morphology in subduction-zone segments affected by tsunami earthquakes	<u>Christina Hölbling</u> , Stefan Broda, Peter Chiffard, Dorthe Pflanz, Jörg Reichling Assessing Groundwater vulnerability to climate change using an index based approach

Detailed programme Tuesday, 4 September 2018

	Hörsaal VIII	Hörsaal IX	Hörsaal III	Hörsaal V
15:30-16:45	03a) Investigating mountains with a microscope Chair: <i>Silvio Ferrero</i>	17a) Young Scientist Session Chairs: <i>Iris Arndt, Marko Hornschu & Michaela Spiske</i>	01a) Cosmochemistry - from dust to planets Chairs: <i>Stefan Peters & Mario Fischer-Gödde</i>	06a/c) Sea-level fluctuations over time – Sea-level index points and dating approaches Chair: <i>M. Seelinger & A. Pint</i>
15h30-15h45	DGGV Eugen Seibold Medal Lecture: Michael Stipp Paleo-epiezometry: A powerful tool for stress measurements in the Earth's crust and mantle	Katrin Hättig , G. Sondej, C. Kulmann, S. Gac Caceres, J. Blumenkamp, N. Kunst, J. Hartmann, N. Kipry, K. Menken-Siemers, D. Rippberger Foraminifera rocket experiment - Biomineralization research in space: Limits and challenges	DMG Goldschmidt Medal Lecture: Christoph Burkhardt Isotope anomalies - a Rosetta stone for deciphering planetary genetics and the solar system's dynamic evolution	Keynote: Jens E. Wendler , Ines Wendler Orbital forcing of the hydrological cycle and sea-level during greenhouse climate: The importance of aquifer-eustasy
15h45-16h00		Marc Johnen , Holger Seher, Torben Weyand, Andreas Artmann Modelling the transport behaviour of contaminants potentially released by decommissioning wastes deposited on generic landfills to the groundwater, using the transport code SPRING		
16h00-16h15	Stefano De Bernardi , Simona Ferrando , Alessandro Decarli , Alessandro Borghi , Gianreto Manatschal Evidence for post-Variscan partial melting of amphibolites in the Strona-Ceneri Border Zone (Lago d'Orta, northern Italy)	Tobias Hens , Joël Brugger , Andrew Frierdich Dynamic Mineral Recrystallization – Unlocking critical metals from deep-sea ferromanganese nodules and crusts	Alessandro Bragagni , Frank Wombacher , Maria Kirchenbaur , Ninja Braukmüller , Bo-Magnus Elfers , Carsten Münker In search of nucleosynthetic Sn anomalies in chondrites	Thomas Lorscheid , Alessio Rovere Ex-situ quantification of sea-level index points and its use in the reassessment of the last interglacial sea-level database
16h15-16h30	Lars Erpel Regional pyroxene hornfels overprint in Variscan rocks - short lived melting events deduced from diffusion modelling in garnet	Matthias Krug , Burkhard Schmidt Raman spectroscopy as a tool for determining the chemical composition of plagioclase minerals	Maxwell Marzban Thiemens , Peter Sprung , Raúl O.C. Fonseca , Felipe P. Leitzke , Carsten Münker Hf/W implications for an old Moon	Michaela Falkenroth , Bastian Schneider , Gösta Hoffmann Increasing the accuracy of beach rocks as sea level indicators by sedimentological facies analysis
16h30-16h45	Bernhard Schulz , Joachim Krause Petrochronology of kinzigites in the Variscan Saxonian Granulite Massif by electron microprobe analysis and electron microscopy	Marcjanna Jędrych , Barbara Woronko , Dorota Chmielowska , Irena Tsermegas Sources of the Saharan dust in Greece	Mario Fischer-Gödde , Bo-Magnus Elfers , Carsten Münker , Wolfgang Maier , Kristoffer Szilas , Hugh Smithies , Tomoaki Morishita The search for volatile-rich building blocks in the Archean mantle	Friederike Bungenstock , Martina Karle Holocene sea level and landscape reconstruction of the East Frisian Peninsula/Southern North Sea - a base to investigate coastal archives
16:45	16:45-18:00 Poster Social >> 1a 1b 1c 2a 3a 3b 3c 5f 6a 7c 8a 8e 9d 10c+e 10g 11b 11c 15a			
18:00			18:00-19:00 General Assembly PalGes	
18:15				
19:00	Science Slam Hörsaal X			



Hörsaal I	Hörsaal X	Hörsaal VII	Hörsaal II	Hörsaal IV
07c) Minerals and Materials: Properties and Structures <i>Chairs: Jürgen Schreuer & Nasser Hbib</i>	10c,e) Part 2: Tetrapod locomotion <i>Chairs: J. N. Lallensack & Michael Buchwitz</i>	09d) Magmatic Ore Deposits <i>Chairs: Malte Junge, Felix Kaufmann & Lennart Fischer</i>	02c) Fifty Years with Plate Tectonics – Move on <i>Chairs: Anke Friedrich & Thorsten Nagel</i>	08a) Groundwater and climate change <i>Chairs: Christoph Neukum & Traugott Scheytt</i>
Nadine Böhme, Kerstin Stange, Thorsten Geisler-Wierwille, Markus Neuroth High-temperature reactions in the anhydrite-quartz system studied by in situ hyperspectral Raman imaging	Michael Buchwitz, Maren Jansen, Sebastian Voigt Functional inference from along-track variation in Late Palaeozoic tetrapod trackways	Sönke Brandt, Reiner Klemm, Karsten Haase Magmatic formation and hydrothermal overprint of the Vergenoeg fluorite deposit, South Africa	DGGV <i>Gustav-Steinmann Medal Lecture: Kaj Hoernle</i> , Folkmar Hauff, Stephan Homrighausen, Joana Rohde, Antje Dürkefälden, Reinhard Werner, Jörg Geldmacher, Maxim Portnyagin, Dieter Garbe-Schönberg, Paul van den Bogaard, Jo-Anne Wartho New Developments in Understanding the Origin of South Atlantic Intraplate Volcanism (Tristan-Gough-Walvis, Discovery and Shona volcanic tracks)	Alexandra Hellwig, Silke Voigt, Andreas Mulch, Konstantin Frisch, Axel Gerdes, Thomas Voigt Paleoenvironmental and climatic implications of Oligocene–Miocene semi-arid paleosols from Kazakhstan
Markus Neuroth, Matthias Dohrn, Michael Schüngel, Peter Lokay Kontrolle der Belagsbildung bei der Verfeuerung rheinischer Braunkohlen in Kraftwerkskesseln	Jens N. Lallensack, Thomas Engler, H. Jonas Barthel Inferring function from footprint shape in tridactyl dinosaurs	Lisa Richter, Laryrn Diamond Metal-bearing brines in tonalites in the Oman ophiolite and their relation to VMS deposits	Keynote: Hans-Peter Bunge Plate Tectonics, MOVE-ON, and models of past mantle flow	Alireza Nikbakht Shahbazi, Hamidreza Majedi, Fatemeh Hassani Multipurpose simulations underground dam scenario in order to revitalize the aquifer and optimize the balance in drought conditions
Nasser Hbib, Georg Nover The Werkendam drillings: A natural analogue for rock interaction with supercritical carbon dioxide scCO₂ and correlated changes of petrophysical properties		Qasid Ahmad, Clifford G.C. Patten, Jochen Kolb, Stephanos P. Kiliyas, Yann Lahaye, Iain Pitcairn The source of metals in the recent polymetallic sea-floor massive sulfide mineralization at the Kolumbo arc-volcano, Greece		
Reinhard X. Fischer, Manfred Burianek, Robert D. Shannon POLARIO, a computer program for calculating refractive indices from chemical compositions		Clifford Patten, Iain Pitcairn Au-rich VMS mineralisation at ODP Hole 786B: evidence for magmatic input in the hydrothermal system		
		Björn Bethge, M. Marks, M. Nowak An experimental study on pyrrhotite, galena, sphalerite and chalkopyrite stability in peralkaline iron-rich melts: the influence on melt evolution and trace element partitioning	Ulrich A. Glasmacher, Hans-Peter Bunge, Anke M. Friedrich MOVE-ON: Models and Observations of Vertical Material Flow on the lithosphere with an open invitation to participate in the cooperative scientific meeting (Rundgespräch) to initialize the DFG Priority Programme Initiative Move-On (Fulda, 02.10.2018 – 05.10.2018)	
		18:00-19:00 General Assembly DGGV		

Detailed programme Wednesday, 5 September 2018

	Hörsaal VIII	Hörsaal IX	Hörsaal III	Hörsaal V
08:00	Registration			
08:30-09:30	02d) Tectonic Systems <i>Chairs: Nikolaus Froitzheim & Kamil Ustaszewski</i>	07a) Advances and new applications in chemical... <i>Chairs: Kilian Pollok, Frank Wombacher, Markus Lagos</i>	10i) Greening of the living Earth... <i>Chairs: Carole T. Gee, Hans Kerp</i>	10b) Biodiversity dynamics in deep time... <i>Chairs: Richard Hofmann & Wolfgang Kießling</i>
08:30	Jan Tomasek , Jonas Kley, David Hindle Tectonics of the Krušné hory Fault (Czech Republic): observations from broken-plate flexure models	<i>Keynote: Dieter Garbe-Schönberg, Samuel Müller, Simon Nordstad, Leewe Schönberg, Michael Wiedenbeck, Axel D. Renno, Maxim Portnyagin, Thomas Zack, Dany Savard</i> Reference materials for microbeam sampling: Where do we stand?	<i>Keynote: Michael Krings, Carla J. Harper</i> Primary producers in the Lower Devonian Rhynie and Windyfield cherts: Cyanobacteria and eukaryotic microalgae	<i>Keynote: Erin Elizabeth Saupe</i> Macroecology in deep time
08:45	Jan O. Eisermann , Ulrich Riller Regional velocity field variations in the Southern Andes are kinematically related to the Liquiñe-Ofqui Fault Zone: evidence from scaled analogue experiments			
09:00	Paul L. Göllner , Jan O. Eisermann, Ulrich Riller A revised kinematic model for the Liquiñe-Ofqui Fault Zone, Southern Andes, based on recent compilation of thermochronological data and DEM analysis	Richard Albert , Axel Gerdes, Leo Millonig, Linda Marko U-Pb LA-ICP-MS dating of low-U minerals: A case study of high grade metamorphic garnet	Rolf Gossmann , Peter Giesen, Markus Poschmann, Hans-Joachim Schweitzer † Prototaxites cf. loganii of the Rhenish Slate Mountains of W-Germany	Joachim T. Haug Concepts in palaeontology – how can we categorise animals from the past?
09:15	Christoph von Hagke , Michael Kettermann, Prokop Zavada, Kathrin Mothe, Dominik Gottron, Janos L. Urai Influence of mechanical stratigraphy and pre-existing structures on fold-thrust-belt geometry	Lena K. Steinmann , Martin Oeser, Ingo Horn, Stefan Weyer In situ analyses of Li isotopes in olivines from volcanic rocks with femto-second laser ablation MC-ICP-MS	Hans Kerp , Iryna Röhr A coal ball flora from the Hauptflöz Seam (Namurian C, lower Bashkirian, Pennsylvanian) of the Ruhr District, Germany	Wolfgang Kiessling , Adam Kocsis Dynamics of extinction and origination in the marine fossil record: an update
09:30	Coffee break & exhibition			



Hörsaal I	Hörsaal X	Hörsaal VII	Hörsaal II	Hörsaal IV
<p>09c) Geology of unconventional resources of critical raw materials <i>Chairs: M. Sosnicka, T. Graupner, M. Burisch, D. Krämer</i></p>	<p>08c) Loess systems and the reconstruction of Pleistocene climate dynamics <i>Chair: Ulrich Hambach</i></p>	<p>04a) Magmatic processes and their geochemical signatures... <i>Chairs: Ambre Luguët, Raúl Fonseca & Stracke Andreas</i></p>		<p>10d) Marine reptiles: a successful story in Mesozoic ecosystems <i>Chairs: Jun Liu, Dayong Jiang & Tanja Wintrich</i></p>
<p><i>Keynote: Max Frenzel, Jakob Kullik, Markus Reuter, Jens Gutzmer Criticality - What makes a raw material critical?</i></p>	<p><i>Keynote: Qingzhen Hao, Luo Wang, Frank Oldfield, Zheng-tang Guo Extra-long interglacial in Northern Hemisphere during MISs 15-13 and its influence on the second major dispersal of African hominins</i></p>	<p><i>Chris Ballhaus, Raul O.C. Fonseca, Alessandro Bragagni, Richard Wirth, Willibald Pröll, Anja Schreiber, Jens Barosch No evidence for Transition Zone metamorphism in diamondiferous ophiolites</i></p> <hr/> <p><i>Mike Jansen, Jonas Tusch, Carsten Münker, Vera Schmitt, Robin Tordy In search for ancient mantle heterogeneities in the Eifel plume: new insights from high precision 182W measurements</i></p>		<p><i>Keynote: Michael J. Benton Marine vertebrates and recovery of life from the Permian-Triassic mass extinction</i></p>
<p><i>Martin Erdmann, Sonja Rosenberg, Simon Glöser-Chahoud, Matthias Pfaff, Hildegard Wilken Potentials of unconventional Sn-W-In-resources – an ecological and socio-economic assessment</i></p>	<p><i>Tobias Sprafke, Simon Meyer-Heintze, Marcin Krawczyk, Christian Schäfer, Robert Peticzka, Birgit Terhorst Fifty shades of loess – potentials and limits of color measurements on loess-paleosol sequences</i></p>	<p><i>Maria Kirchenbauer, Alessandro Bragagni, Raúl Fonseca, Carsten Münker Revisiting the primitive mantle abundances of the moderately volatile elements Sn and In</i></p>		<p><i>Dayong Jiang, Ryosuke Motani, Andrea Tintori, Jiandong Huang, Zuoyu Sun, Min Zhou Emergence and fast radiation of Mesozoic marine reptiles after the end-Permian Mass Extinction</i></p>
<p><i>Ulrich Schwarz-Schampera, Ralf Freitag, Hendrik Müller Current Status of the German Polymetallic Sulphide Exploration in the Western Indian Ocean</i></p>	<p><i>Christian Zeeden, Ulrich Hambach, Igor Obrecht, Qingzhen Hao, Stefanie Kaboth, Daniel Veres, Frank Lehmkuhl, Milijoj B. Gavrilov, Slobodan B. Marković Stratigraphic interpretations of loess-paleosol sequences and their relevance for land-sea correlations</i></p>	<p><i>Sonja Aulbach Eclogite in the lithosphere and asthenosphere: Chemical and redox effects</i></p>		<p><i>Marta S. Torres Ladeira, Torsten M. Scheyer, Heinz Furrer, Iris Ehrbar Pachypleurosaurs from the Ducan area, Switzerland</i></p>

Detailed programme Wednesday, 5 September 2018

	Hörsaal VIII	Hörsaal IX	Hörsaal III	Hörsaal V
10:00-11:15	02d) Tectonic Systems <i>Chairs: Nikolaus Froitzheim & Michael Stipp</i>	07a) Advances and new applications in chemical... <i>Chairs: Kilian Pollok, Frank Wombacher, Markus Lagos</i>	10i) Greening of the living Earth... <i>Chairs: Carole T. Gee, Hans Kerp</i>	10b) Biodiversity dynamics in deep time... <i>Chairs: Richard Hofmann & Wolfgang Kießling</i>
10:00	<u>Karsten Reiter</u> , Oliver Heidbach Do Paleozoic basement structures affect present-day stress orientation in central Western Europe?	<u>Alexander Potrafke</u> , Roland Stalder, Burkhard Schmidt Trends of OH-defect incorporation in experimentally grown quartz at crustal conditions	<u>Patrick Blumenkemper</u> , Abdalla Abu Hamad, Hans Kerp, Benjamin Bomfleur 'The smoking gun' – New evidence for Permian Corystosperms from Jordan	<u>Richard Hofmann</u> , Melanie Tietje, Martin Aberhan Diversity Partitioning in benthic marine ecosystems throughout the Phanerozoic
10:15	<u>Alexander Malz</u> , Christoph Nachtweide, Sophie Emmerlich Styles of Late Cretaceous intraplate shortening in Central Germany - first results from the Altmark region, Saxony Anhalt	<u>Markus Pfeifer</u> , Jamie Lewis, Christopher D. Coath, Hsin-Wie Chen, Johannes Schwieters, Tim Elliott Potential of in-situ presolar grain isotopic analyses using a collision cell MC-ICPMS, Proteus	<u>Rafael Spiekermann</u> , José R. W. Benício, André Jasper, <u>Dieter Uhl</u> Taxonomy and taphonomy of a remarkable lycopsid mass-assembly from the Morro do Papaleo outcrop (Rio Bonito Formation, lower Permian, Paraná Basin, Rio Grande do Sul, Brazil)	<u>Till Söte</u> , Ralph T. Becker The early radiation of ammonoids after the global Kellwasser Crisis in the Canning Basin (Frasnian-Famennian boundary, Western Australia)
10:30	<u>Sebastian Reimers</u> , Jon Engström, Ulrich Riller Kinematic evolution of the Paleoproterozoic Kynsikangas ductile shear zone, SW-Finland	<u>Kilian Pollok</u> , Prasant Kumar Nayak, Liangtao Yang, Falko Langenhorst, Philipp Adelhelm Mineralogy meets Energy: Insights from TEM-EELS to Performance and Ageing of Mn and Fe based Layered Oxide Materials used as Battery Cathode Material	<u>Ronny Rößler</u> Medullosen – vielfältig, gut angepasst und dennoch ausgestorben?	<u>Yu Pei</u> , Zhong-Qiang Chen, Yuheng Fang, Stephen Kershaw, Siqi Wu, Mao Luo Volcanism, redox conditions, and microbialite growth linked with the end-Permian mass extinction: Evidence from the Xiajiacao section (western Hubei Province), South China
10:45	<u>Kathrin Fassmer</u> , Nikolaus Froitzheim, Raúl O.C. Fonseca, Carsten Münker Lu-Hf geochronology of eclogites from Norrbotten (Seve Nappe Complex, Scandinavian Caledonides)	<u>Anne E. Berns</u> , Bei Wu, Yi Wang, Ying Xing, Roland Bol, Kathlin Schweitzer, Michael Baumecker, Wulf Amelung Applying stable isotope analysis to evaluate soil management techniques in agricultural field sites	<u>Steffen Trümper</u> , Ronny Rößler, Jens Götze Deciphering silicification pathways of fossil forests: Case studies from the late Paleozoic of Central Europe characterised by cathodoluminescence microscopy	<u>Vanessa J. Roden</u> , Imelda M. Hausmann, Barbara Seuss, Alexander Nützel, Wolfgang Kiessling High diversity in the Triassic Cassian Formation
11:00	<u>Philipp Balling</u> , Bruno Tomljenović, Kamil Ustaszewski The tectono-sedimentary evolution of the Promina Beds caused by contrasting styles of deformation along-strike the External Dinarides	<u>Jens Fohlmeister</u> , Jennifer Arps, Christoph Spötl, Andrea Schröder-Ritzrau, Birgit Plessen, Christina Günter, Norbert Frank, Martin Trüssel Carbon and oxygen isotope fractionation in the water-calcite-aragonite system	<u>Jan Unverfärth</u> , Stephen McLoughlin, Benjamin Bomfleur Mesofossil analysis as a window into a Triassic coal-forest ecosystem of Gondwana	<u>Alexander Nützel</u> , Imelda M. Hausmann, Mike Reich, Vanessa Roden Contrasting shallow and deeper water marine assemblages of the highly heterogeneous biota from the Late Triassic Cassian Formation, northern Italy
11:15				
11:30	Plenary Lecture: Dr. William B. F. Ryan (Lamont-Doherty Earth Observatory of Columbia, USA) Exploring the Symmetry of Sea-floor Spreading 			
12:30	LUNCH BREAK	AK Paläobotanik/ Palynologie		



Hörsaal I	Hörsaal X	Hörsaal VII	Hörsaal II	Hörsaal IV
<p>09c) Geology of unconventional resources of critical raw materials <i>Chairs: M. Sosnicka, T. Graupner, M. Burisch, D. Krämer</i></p> <p>Dennis Kraemer, Marta Sośnicka, Volker Lüders, Michael Bau Isotopes and trace elements incl. REY in formation waters from the North German Basin: Archives for long-term water-rock interaction and potential tools for exploration of mineral deposits under deep cover</p>	<p>08c) Loess systems and the reconstruction of Pleistocene climate dynamics <i>Chair: Christian Zeeden</i></p> <p>Tobias Lauer, Stefan Vlamincik, Martin Kehl, M. Frechen, C. Rolf, E. Lehndorff, J. Sharifigarmdare, A. Shahriari, F. Khormali Loess-paleosol sequences in northern Iran – Highly resolved archives of paleoenvironmental change during the Middle- and Upper Pleistocene</p>	<p>04a) Magmatic processes and their geochemical signatures... <i>Chairs: Ambre Luguët, Raúl Fonseca & Stracke Andreas</i></p> <p>Takahiro Yoshioka, Daisuke Nakashima, Tomoki Nakamura, Svyatoslav Shcheka, Hans Keppler Carbon solubility in silicate melts coexisting with graphite and a CO-CO₂ gas phase</p>		<p>10d) Marine reptiles: a successful story in Mesozoic ecosystems <i>Chairs: Jun Liu, Dayong Jiang & Tanja Wintrich</i></p> <p>Jørn H. Hurum, Hans A. Nakrem Spathian (Olenekian) bonebeds from Spitsbergen, Norway</p>
<p>Marta Sośnicka, Dennis Kraemer, Volker Lüders, Michael Bau, Cora Wohlgemuth-Ueberwasser Sources and pathways of ore-forming fluids in the Lower Saxony Basin, Germany</p>	<p>Sascha Meszner, Moncef Bouaziz, Ulrich Hambach, Alexander Fülling, Georg Mettig, Max. Pachtman, Manuel R. Espejo, Dominik Faust Desert Margin Loess in Southern Tunisia</p>	<p>Felipe P. Leitzke, Raúl O.C. Fonseca, Jörg Göttlicher, Ralph Steininger, Sandro Jahn, Clemens Prescher, Markus Lagos Titanium coordination chemistry and oxidation state during lunar magmatism and ab initio modelling of mass-dependent equilibrium isotope fractionation</p>		<p>Jun Liu, P. Martin Sander, Adun Samathi, Phornphen Chanthasit The earliest ichthyosaur from the middle Lower Triassic of Thailand</p>
<p>Patrick Nadoll, Meike Rehm, Florian Duschl, Reiner Klemm REY and trace element chemistry of fluorite from post-Variscan hydrothermal veins in deeply covered Paleozoic units of the North German Basin</p>	<p>Lydia Krauß, Nicole Klasen, Philipp Schulte, Frank Lehmkuhl Is there a need for readjustments concerning Late Pleistocene paleoenvironmental dynamics in the northern loess distribution zone of Bavaria (Germany)?</p>	<p><i>Keynote: Hugh StClair O'Neill</i> Shapes of Rare Earth Element patterns in planetary basalts and their significance</p>	<p>11a) The fossil record of evolution and evolutionary processes <i>Chairs: Christian Klug & Ralph T. Becker</i></p>	<p>Andrzej S. Wolniewicz, R. Motani, R. B. J. Benson A bizarre, new ichthyosaur from the Blue Lias Formation (Lower Jurassic, Hettangian–Sinemurian) of the United Kingdom provides evidence for a temporally staggered ichthyosaur turnover across the Triassic–Jurassic boundary</p>
<p>Rachid Benaouda, Dennis Krämer, Michael Bau Mineralogy and geochemistry of REE-Nb mineralization in the Gleibat Lafhouda and Twihinat carbonatites and associated Fe-oxides of the Ouled Dlim Massif in the Reguibat Shield (South Morocco)</p>	<p>Mathias Vinnepond, B. Thornton, P. Fischer, A. Vött, K. Fitzsimmons, C. Prud'homme Stable carbon isotope composition of inorganic carbonates in loess: A tool to differentiate between lithogenic calcareous dust input and pedogenic carbonates in Loess-Palaeosol-Sequences</p>		<p><i>Keynote: Christian Klug</i> Ammonoid beginnings</p>	<p>Jelle Heijne, P. Martin Sander The use of taphonomy and biomechanics in understanding the paleobiology of the Ichthyosauria</p>
<p>Hartwig F. Gielisch Coal – A dispensable natural resource?</p>	<p>Olaf Jöris, Peter Fischer, Sonja B. Grimm, Martin Street, Bernhard Weninger Aeolian activity changes during OIS 2 in Central Europe and its influences on the Late Glacial human expansion into the North</p>	<p>David A. Neave, Oliver Shorttle, Martin Oeser, Stefan Weyer Mantle-derived trace element variability in olivines and their melt inclusions</p>		<p>Tanja Wintrich, P. Martin Sander Soft part preservation in ichthyosaur vertebral column suggest a proper intervertebral disc</p>

Hörsaal X

Detailed programme Wednesday, 5 September 2018

	Hörsaal VIII	Hörsaal IX	Hörsaal III	Hörsaal V
13:15	DGGV Award Ceremony Hörsaal X			
14:15				
14:30-16:15	02d) Tectonic Systems <i>Chairs: Michael Stipp & Kamil Ustaszewski</i>	15a) Geoscientific collections in the area of responsibility... <i>Chairs: Birgit Kreher-Hartmann & Dorothee Kleinschrot</i>	10i) Greening of the living Earth... <i>Chairs: Hans Kerp & Carole T. Gee</i>	05d) Marine Systems <i>Chairs: Florian Pohl, Stefan Huck & Mike Tilston</i>
14:30	<i>Keynote: Thorsten Nagel</i> What field geology, P-T modeling, and garnet geochronology can tell about subduction and exhumation	<i>DGGV Serge-von-Bubnoff Medal Lecture: Gerold Wefer</i> Science Communication - Examples and New Initiatives	<i>Keynote: Carole T. Gee, David W. Taylor</i> Water lily leaves at the base of the Nuphar and Nymphaeaceae clades from the middle Eocene lake of Messel, Germany	<i>Keynote: Matthieu Cartigny</i> How new deep-sea observations change turbidity current models
14:45				
15:00	<u>Irena Miladinova</u> , Nikolaus Froitzheim, Thorsten J. Nagel, Marian Janák, Raúl O.C. Fonseca, Carsten Münker Lu-Hf geochronology and petrology of eclogites from the Eastern Alps: New constraints for the kinematics of the Eoalpine subduction zone	<u>Anne Zacke</u> , Fides Friedeberg, Renate Schumacher, Dana Vlcek, Mara Lönnart, Maurice Malcharzyk, Matthias Roos Public relation at university affiliated museums	<u>Philipp Hiller</u> , Madelaine Böhme, Jerome Prieto, Simon Schneider, Benjamin Bomfleur A new species of Plenarium (Osmundaceae) from the Eocene of Southeast Asia	<u>Jens Zimmermann</u> , Matthias Franz, Markus Wolfgramm Sea-level controlled back stepping of a large fluvial-dominated delta cycle – An example of the Lower Jurassic of the North German Basin
15:15	<u>Linus Klug</u> , Nikolaus Froitzheim, Frank Tomaschek, Markus Lagos Pre-Variscan U-Pb zircon ages of the Texel Complex and the Schneeberg Complex (Austroalpine, Italy)	<u>Birgit Kreher-Hartmann</u> Models, minerals and methods – the handling with geoscientific objects in the public	<u>Christian Müller</u> , Lutz Kunzmann Combining insect herbivory and leaf trait data – A case study from the late Eocene of central Germany – preliminary results	<u>Ruggero M. Capperucci</u> , R. Schumm, F. Bungenstock, A. Bartholomä High resolution reconstruction of the Pleistocene-Holocene depositional systems in the German Wadden Sea (Southern North Sea) by means of parametric echosounder and core data – The WASA (Wadden Sea Archive) Project
15:30	Jeff Oalman, Erik Duisterhoeft, Andreas Möller, Romain Bousquet Alpine (U)HT metamorphism in the Gruf Complex: which consequences for the evolution of the Central Alps?	<u>Edouard Grigowski</u> , Martin Monschau, Gösta Hoffmann OutcropWizard - The mobile outcrop database	<u>Mariah M. Howell</u> , Carole T. Gee, Jürgen Hummel Revisiting energy yield patterns in the digestion of Araucaria and Equisetum by herbivores: Additional implications for sauropod food choices	<u>Yvonne Spychala</u> , Joris Eggenhuisen, Mike Tilston, Florian Pohl Dimensions of submarine lobe elements and their reaction to changing basin settings and flow parameters
15:45	<u>Christophe Real</u> , Nikolaus Froitzheim, Rodolfo Carosi, Simona Ferrando Evidence of large-scale Mesozoic detachments preserved in the basement of the Southern Alps (northern Lago di Como area)	<u>Tong Bao</u> , Hongyi Liu, Takashi Ito, Katarzyna S. Walczyńska The development of Chinese fossil related industry and the cooperation with Germany	<u>Samantha Moody</u> , Carole T. Gee, Maximilian Weigend Modern and Ancient Thieves: Krameria lappacea, a Hemiparasitic Shrub with Distinctive Wood as a Modern Analog for Fossil Hemiparasites	<u>Ross Ferguson</u> , Ian Kane, Joris Eggenhuisen, Florian Pohl, Mike Tilston, Yvonne Spychala, Rufus Brunt Discerning allocyclic and autocyclic controls on submarine fan development
16:00			<u>Sashima Läbe</u> , <u>Carole T. Gee</u> Capturing fossil plants with photogrammetry: Case studies from the field and in the lab	<u>Stefan Back</u> , Maximilian Franzel 3D seismic sedimentology and stratigraphic architecture of prograding clinofolds, central Taranaki Basin, New Zealand
16:15	Poster Social (16:15-17:45) >> 2b 2d 4a 4b 4c 5a 5d 7a 8b 8c 9c 10b 10d 10h 10i			
19:00	Conference Dinner at the Mensa			

Hörsaal I	Hörsaal X	Hörsaal VII	Hörsaal II	Hörsaal IV
<p>09c) Geology of unconventional resources of critical raw materials <i>Chairs: M. Sosnicka, T. Graupner, M. Burisch, D. Krämer</i></p>	<p>08c) Loess systems and the reconstruction of Pleistocene climate dynamics <i>Chair: Tobias Sprafke</i></p>	<p>04b) Materials, structure and dynamics of Earth's deep interior <i>Chairs: Max Wilke & Hauke Marquardt</i></p>	<p>11a) The fossil record of evolution and evolutionary processes <i>Chairs: Christian Klug & Ralph Thomas Becker</i></p>	<p>Workshop 2h: Publication of research data</p>
<p><i>Keynote: Peter Onuk, Frank Melcher High-tech metal potential of sphalerite from eastern alpine lead-zinc deposits</i></p>	<p><u>Frank Sirocko</u> Central European aridity changes in response to North Atlantic SST change during MIS3 (60.000 – 27.000 BP)</p>	<p><i>Keynote: Jeroen Ritsema Seismic constraints on the thermochemical structure of the mantle transition zone</i></p>	<p><u>Paula G. Pazinato, Carolin Haug, Angelika Leipner, Joachim T. Haug</u> A new glimpse into the early diversification of peracarid crustaceans – An exceptionally preserved pygocephalomorph from the Upper Carboniferous of Germany</p>	
	<p><u>Zoran M. Peric, J.-P. Buylaert, T. Stevens, S. B. Marković, U. Hambach, P. Fischer, C. Zeeden, M. Jain, A. Vött</u> High resolution luminescence dating of the Titel loess core (Serbia, Eastern Europe) over the last two glacial-interglacial cycles</p>		<p><u>Mario Schädel, Patrick Müller, Joachim T. Haug</u> Fossil aquatic insect larvae in Burmese amber with important implications on the ground pattern of Odonata (dragonflies and damselflies)</p>	
<p><u>Matthias E. Bauer, Mathias Burisch, Jörg Ostendorf, Joachim Krause, Max Frenzel, Thomas Seifert, Jens Gutzmer</u> Trace element geochemistry of sphalerite in contrasting hydrothermal fluid systems: insights from LA-ICP-MS analysis, fluid inclusion microthermometry and sulfur isotope geochemistry</p>	<p><u>Holger Kels, Philipp Schulte, Christian Zeeden, Ulrich Hambach, Nicole Klasen, Frank Lehmkühl</u> Semlac - a key loess-palaeosol sequence of the Banat Lowland (Western Romania) and a prominent Pleistocene section for the SE-Carpathian Basin</p>	<p><u>Sílvia S. Duarte, Peter G. Betts, Alexander R. Cruden</u> Numerical subduction models in a two-layer mantle: exploring stress-dependent mantle viscosity parameters</p>	<p><u>Maro-Pascal Ellerkamp, Ralph T. Becker</u> A comparison of Givetian gastropod faunas from the Tata region (Dra Valley, southern Morocco) and the Rhenish massif</p>	
<p><u>Mathias Burisch, Anthea Hartmann, Wolfgang Bach, Patrick Krolop, Jens Gutzmer</u> Genesis of hydrothermal silver-antimony-sulphide veins of the Bräunsdorf sector of the Freiberg District, Germany</p>	<p><u>Igor Obreht, Christian Zeeden, Ulrich Hambach, Daniel Veres, Slobodan B. Marković, Frank Lehmkühl</u> A critical re-evaluation of palaeoclimate proxy records from loess sections in the Carpathian Basin</p>	<p><u>Sergey Lobanov, Nicholas Holtgrewe, Alexander Goncharov</u> Probing spin transition at combined high pressure and temperature by optical spectroscopy</p>	<p><u>Jan Fischer</u> On the fossil record of chimaeroid (Holocephali) egg cases</p>	
<p><u>Maximilian Korges, Philipp Weis, Volker Lüders, Oscar Laurent</u> Hydrothermal evolution of Sn deposits in the Erzgebirge – insights from fluid inclusions in ore and gangue minerals</p>	<p><u>Daniel Veres, U. Hambach, I. Obreht, C. Zeeden, A. Timar-Gabor, J. Böskén, F. Lehmkühl, S. B. Marković</u> Paleoclimatic and tephrostratigraphic potential of last glacial cycle south-eastern European loess-paleosol sequences</p>	<p><u>Johannes Buchen, H. Marquardt, K. Schulze, S. Speziale, A. Kurnosov, A. Chaudhari, T. Boffa Ballaran, N. Nishiyama</u> The High-Pressure Elasticity of Polycrystalline Stishovite and Seismic Scattering in Earth's Lower Mantle</p>	<p><u>Nicola S. Heckeberg, Faysal Bibi</u> Divergence time estimation in Cervidae: comparing node- and tip-dating approaches</p>	
<p><u>Mathias Wolf, Rolf L. Romer, Leander Franz</u> Tin mobilization during melt generation</p>	<p><u>Mehrdad Sardar Abadi, Gerilyn S. Soreghan</u> Atmospheric dust as a climatic proxy in Late Paleozoic of Iran (Skype presentation)</p>	<p><u>Sylvain Petitgirard, Christoph Sahle, Christopher Weis, Georg Spiekermann, Max Wilke, Christian Sternemann</u> Properties of magmas at depth from SiO₂ local structure measured using X-ray Raman spectroscopy</p>	<p><u>Ralph T. Becker</u> Iterative evolution as the rule – not exception – in ammonoids and other cephalopods</p>	
<p><u>Khulan Berkh, Dieter Rammelmair, Malte Drobe</u> Geochemistry and mineralogy of selected mine tailings in Chile</p>				

Detailed programme Thursday, 6 September 2018

	Hörsaal VIII	Hörsaal IX	Hörsaal III
08:00	Registration		
08:30-10:00	02b) Microfabrics, deformation mechanisms... <i>Chair: Ruth Keppeler</i>	05a) Temperature and fluid dynamics in sedimentary basins <i>Chair: Ralf Littke</i>	04c) Dynamics of magmatic and volcanic processes <i>Chairs: Kathi Faak & David Neave</i>
08:30	<u>Beverley J. Tkalcec</u> , Frank E. Brenker Early mantle dynamics recorded in extraterrestrial olivine fabric	<u>Peter A. Kukla</u> , Janos L. Urai, Lars Reuning, Stephan Becker, Shiyuan Li Salt Tectonics in Oman – multi-scale and integrated outcrop and subsurface studies of salt deformation mechanisms	<i>Keynote: <u>Adrian Fiege</u>, Adam Simon, Philipp Ruprecht, Francois Holtz Dynamic magma-magma interface processes that moderate metal mass transfer in arc magma systems</i>
08:45	<u>Nobuyoshi Miyajima</u> , Tommaso Mandolini, Florian Heidelbach Partial dislocations and stacking fault ribbons in deformed pyrope at high pressure and temperature: Combining ECCI and FIB milling techniques to prepare site-specific TEM samples	Sven Fuchs, <u>Andrea Förster</u> Terrestrial heat flow in basin modelling: new findings for the North German Basin	
09:00	<u>Jan H. Behrmann</u> , R. Kuehn, M. Stipp, B. Leiss, J. Kossak-Glowczewski Seismic anisotropy of slow-spreading oceanic crust and serpentinized mantle constrained from textures of rocks drilled at Atlantis Massif (Atlantic Ocean) during IODP Expedition 357	<u>Joschka Röth</u> , Adeline Parent, Cassandra Warren, Daniel Palmowski, Ralf Littke Application of crustal thickness inversion for thermal history modeling in the Gippsland Basin, Victoria, Southeastern Australia	<u>Anja Allabar</u> , Marcus Nowak Decompression induced phase separation of hydrous Vesuvius melt: vesicle nucleation or spinodal decomposition?
09:15	<i>Keynote: <u>Rüdiger Kilian</u> Deformation microstructures and textures of quartz - new insights on old paradigms</i>	<u>Sebastian Niegel</u> , Matthias Franz, Graciela M. Sosa, Markus Wolfgramm Burial history and sandstone diagenesis: the example of Schilfsandstein (Triassic) in the North German Basin (Usedom area)	<u>Georg Nover</u> , Jutta von der Gönna Melt fraction, distribution and interconnection determined by electrical conductivity and energy dispersive X-ray diffraction
09:30		<u>Sebastian Grohmann</u> , M. F. Romero-Sarmiento, F. H. Nader, F. Baudin, R. Littke Organic-rich intervals of Late Mesozoic to Cenozoic age in the on- and offshore area of Cyprus and their impact on petroleum systems in the Eastern Mediterranean Sea	<u>Nicole Malz</u> , Olivier Namur, Kathrin Faak Insights into the subsolidus cooling history of the Skaergaard Intrusion, Greenland – An application of diffusion chronometry
09:45	<u>Ben Laurich</u> , Werner Gräsle Geomechanical properties and structural evolution of Scaly Clay	<u>Simon Müller</u> , Jashar Arfai, Fabian Jähne-Klingberg, Frithjof Bense The Jurassic in the German Central Graben and its potential as a thermogenic source for shallow gas accumulations	<u>Smruti Sourav Rout</u> , Burkhard C. Schmidt, Gerhard Wörner Non-isothermal diffusive analysis: experimental validation and application to sanidine megacrysts from Taapaca volcano (Northern Chile)
10:00	Coffee break- exhibition		
10:30	Plenary Lecture: Prof. Gordon Lister (The Australian National University Canberra) <i>Gravity drives Great Earthquakes</i> Hörsaal X		
11:30	DMG Award Ceremony, Poster Awards and Closing Ceremony Hörsaal X		



Hörsaal V	Hörsaal I	Hörsaal X	Hörsaal VII
<p>05d) Marine Systems Chairs: Florian Pohl, Stefan Huck & Mike Tilston</p>	<p>08b) Oceanic oxygen, Ice ocean interactions and climate change Chairs: Mike Weber & Jacek Raddatz</p>	<p>10h) Vertebrate jaws and teeth — form and function Chairs: Julia A. Schultz & Thomas Martin</p>	<p>10a) The early ‘Explosion of Life’ ... Chairs: Oliver Lehnert & Thomas Servais</p>
<p>Maximilian Hallenberger, Lars Reuning, Stefan Back, Stephen J. Gallagher, Hokuto Iwatani Carbonate Petrography of sediments along the North West Shelf of Australia (NWS): a contribution to understanding the oolite problem</p>	<p>Keynote: Thomas Ronge, Jörg Lippold, Walter Geibert, Frank Lamy, Gesine Mollenhauer, Matthias Prange, Bernhard Schnetger, Finn Sűfke, Ralf Tiedemann A Southern Ocean perspective on climate, CO2 and ice sheets</p>	<p>Bryan Shirley, Madleen Grohgan, Michel Bestmann, Emilia Jarochowska Wear, tear, and systematic repair: Testing growth dynamic models in euconodonts</p>	<p>Keynote: David Harper The Early Palaeozoic marine diversifications: some causes and consequences</p>
<p>Dario Fussmann, Avril von Hoyningen-Huene, Dominik Schneider, Andreas Reimer, Rolf Daniel, Gernot Arp, Patrick Meister Authigenic carbonate formation in Lake Neusiedl - biotic and abiotic contributions</p>		<p>Daniela E. Winkler, Ellen Schulz-Kornas, Thomas M. Kaiser, Thomas Tütken First 3D enamel surface texture analysis of extant squamata and crocodylia</p>	
<p>André Wizemann, Thomas Mann Experimental study on the process of early marine carbonate cementation in sedimentary Halimeda segments</p>	<p>Invited talk Florian Scholz, Sebastian Beil, Klaus Wallmann, Moritz F. Lehmann, Sascha Flögel, Ann Holbourn, Wolfgang Kuhnt Reconstructing oxygen minimum zone-type biogeochemical cycling in the geological record</p>	<p>Philipp Ludwig Knaus Occlusal fingerprint analysis suggests complex oral processing in high-fiber herbivores since the Early Permian</p>	<p>Oliver Lehnert, Peep Männik, John E. Repetski, Rongchang Wu, Michael M. Joachimski, Mikael Calner, Björn Kröger, Jaak Nölvak, Thomas Servais, David A. T. Harper, Renbin Zhan Major diversification pulses during the GOBE linked to the Ordovician climate record</p>
<p>Franziska Klimpel, Michael Bau, Katja Schmidt, Hermann Kudrass The geochemical twins Y-Ho, Zr-Hf and Nb-Ta in marine phosphorites</p>		<p>Thomas Martin, Julia A. Schultz, Janka J. Brinkkötter, Kai R.G. Jäger, Thorsten Plogschties, Achim H. Schwermann Dental diversity and functional adaptations in Mesozoic mammaliaforms</p>	<p>Brigitte Schoenemann, Euan N.K. Clarkson Eye Diversification in the Ordovician</p>
<p>Theresa Nohl, Axel Munnecke Lost in transition – the selective compaction of a halysitid coral and its implications for diagenesis and time</p>	<p>Michael E. Weber, Christopher J. Fogwill, Matthew DeCesare, Nicholas R. Gollledge, Natalya Gomez, Peter U. Clark Antarctic Ice Sheet Dynamics Coupled to Global Climate Events</p>	<p>Julia Ann Schultz, Bhart-Anjan Bhullar, Zhe-Xi Luo Mandibular shape and chewing motions of Docodon victor</p>	<p>Thomas Servais, David M. Kröck, Mats E. Eriksson, Anders Lindskog, Claude Monnet, Axel Munnecke Different species or just ecophenotypes? Population analyses of the early Palaeozoic acritarch genus Lili-osphaeridium from the Ordovician of Öland, Sweden</p>
<p>Florian Pohl, Mike Tilston, Joris Eggenhuisen, Matthieu Cartigny First measurement of a mechanism responsible for enhanced erosion in channel-lobe-transition zones</p>	<p>Jassin Petersen, Christine Barras, Antoine Bézos, Carole La, Filip J R Meysman, Aurélia Mouret, Caroline P Slomp, Frans J Jorissen Mn/Ca ratios of Ammonia tepida as a proxy for seasonal hypoxia in coastal ecosystems: the case of Lake Grevelingen, The Netherlands</p>	<p>Thomas Engler, Thomas Martin Functional modifications in tooth morphology of Paleocene small mammals</p>	<p>David Kroeck, Claude Monnet, Gary Mullins, Axelle Zacaï, Thomas Servais Global scale diversity of phytoplankton in the Early Palaeozoic and its palaeoecological significance</p>

Poster exhibition

Posters will be presented at the Aula. The poster exhibition has been divided in 3 poster socials:

Monday, 3 Sept., 16:30-18:00, Sessions: 2c | 5b | 5c | 5e | 6b | 9a | 12a | 13a | 13b | 14a | 16a | 16b | 16c | 17a

Tuesday, 4 Sept., 16:45-18:15, Sessions 1a | 1b | 1c | 2a | 3a | 3b | 3c | 5f | 6a | 7c | 8a | 8e | 9d | 10c+e | 10g | 11b | 11c | 15a

Wednesday, 5 Sept., 16:15-17:45, Sessions: 2b | 2d | 4a | 4b | 4c | 5a | 5d | 7a | 8b | 8c | 9c | 10b | 10d | 10h | 10i

Each poster should be the size of the upright German DIN A0-format which equates to 841 mm width x 1,189 mm height (33.11 in x 46.81 in).

Please note that the organizers are not able to provide printout of posters.

Please mount your poster to your assigned poster board latest during the morning coffee break on the day of your presentation. Mounting material will be provided at the registration desk. Please make sure to remove your poster directly after the poster session.

POSTER AWARDS: Three best posters of (PhD) students will be selected by a jury and awarded. The selected posters will be awarded during the Closing Ceremony on Thursday, September 6.

List of posters

by sessions in alphabetical order of first authors' family names

Monday, 3 Sept., 16:30-18:00, Sessions: 2c | 5b | 5c | 5e | 6b | 9a | 12a | 13a | 13b | 14a | 16a | 16b | 16c | 17a

No.	Session	Authors	Presenter	Title
Mon-01	2c	Estrada, Solveig; Koglin, Nikola; Gerdes, Axel; Sonntag, Benita-Lisette; Tessensohn, Franz	Estrada, Solveig	Ediacaran (Timanian) island arc fragments of Baltica at the north coast of Laurentia
Mon-02	2c	Geersen, Jacob; Behrmann, Jan H; Klaucke, Ingo; Kopp, Heidrun; Lange, Dietrich; Ranero, César R; Barckhausen, Udo; Reichert, Christian; Tréhu, Anne M; Contreras-Reyes, Eduardo	Geersen, Jacob	Structure and active tectonics of the sediment starved North Chilean continental margin and the oceanic Nazca Plate
Mon-03	2c	Hoyer, Patrick A.; Woelki, Dominic; Regelous, Marcel; Haase, Karsten	Hoyer, Patrick A.	Melt processes of ultramafic mantle rocks of the Troodos Ophiolite: A case study of trace elements in clino- and orthopyroxene.
Mon-04	2c	Kley, Jonas; Sobel, Edward R.; Rembe, Johannes; Voigt, Thomas; Jie, Chen; Liu, Langtao	Kley, Jonas	Does intracontinental subduction occur in the Pamir? Inferences from the foreland fold-and-thrust belt in Kyrgyzstan and western China
Mon-05	2c	Koglin, Nikola; Estrada, Solveig	Koglin, Nikola	Zircon grains from serpentinite of the Voykar Massif, Polar Urals: Trace elements, U-Pb and Lu-Hf isotopic data
Mon-06	2c	Krob, Florian C.; Glasmacher, Ulrich A.; Bunge, Hans-Peter; Friedrich, Anke M.; Hackspacher, Peter C.	Krob, Florian C.	Do thermochronological data and stratigraphic records store plume movement?
Mon-07	2c	Vibe, Yulia; Friedrich, Anke M; Bunge, Hans-Peter; Clark, S. R.	Friedrich, Anke M.	Correlations of oceanic spreading rates and Hiatus Surface Area in the North Atlantic Realm
Mon-08	5b	Grigowski, Edouard	Grigowski, Edouard	High-resolution sedimentological and geochemical investigations of the Leutesdorf Formation, Mayen, Germany
Mon-09	5b	Koch, Heike; McCann, Tom	Koch, Heike	Sandstone characterisation from the Neogene-age Tabernas Basin, SE Spain
Mon-10	5b	Lewin, Anna; Meinhold, Guido; Hinderer, Mathias; Bussert, Robert; Dawit, Enkurie L.	Lewin, Anna	Sediments of two Gondwana glaciations in Ethiopia: Integrated provenance analysis based on bulk geochemistry, heavy mineral assemblage and single-grain techniques



No.	Session	Authors	Presenter	Title
Mon-11	5b	Mansouri, Maryam; Hinderer, Matthias; Stutenbecker, Laura; Augustsson, Carita	Mansouri, Maryam	Towards a sediment budget of the Buntsandstein in Europe and its implication for palaeoenvironmental conditions at and shortly after the Permian-Triassic Boundary
Mon-12	5c	Garefalakis, Philippos; Schlunegger, Fritz	Garefalakis, Philippos	Tectonic controls on the Burdigalian transgression of the Upper Marine Molasse inferred from the stratigraphic architecture
Mon-13	5c	Grimmer, Jens Carsten	Grimmer, Jens Carsten	GIS-based DEM5-LiDAR lineament analysis and fault-slip data from the Kaiserstuhl volcanic edifice and first structural data from the Vogelsberg volcanic field: Implications for Neogene deformation in the Upper Rhine Graben area
Mon-14	5c	Khalifa, Nabel Laswad; Back, Stefan	Khalifa, Nabel Laswad	The interaction between tectonics and carbonate-system development in western offshore Libya
Mon-15	5c	Strozyk, Frank; Reuning, Lars; Back, Stefan; Kukla, Peter	Strozyk, Frank	Giant pockmark formation from Cretaceous hydrocarbon expulsion in the western Lower Saxony Basin, The Netherlands
Mon-16	5c	Stück, Heidrun Louise; Jähne-Klingberg, Fabian; Bense, Frithjof; Wolf, Marco	Stück, Heidrun Louise	Salt structures in the German North Sea: New results by re-evaluation and systematic classification
Mon-17	5e	Friedrichs, Bjarne; Schmitt, Axel K.; Danisik, Martin; Atici, Gökhan; Yurteri, Esra	Friedrichs, Bjarne	Holocene Silicic Volcanism at Mt. Erciyes, Central Anatolia, Turkey
Mon-18	5e	Mechernich, Silke; Gromig, Raphael; Goral, Tomasz; Binnie, Steven A.; Dunai, Tibor	Mechernich, Silke	Advances in cosmogenic chlorine-36 dating applications
Mon-19	5e	Scheck, Sebastian; Krauß, Lydia; Schwindt, Daniel; Völkel, Jörg	Krauß, Lydia	Towards a reconstruction of landscape developments in the Otterbach catchment (Bavarian Forest, Southern Germany)
Mon-20	5e	Schoch, Anna; Blöthe, Jan Henrik; Munack, Henry; Hornung, Jens; Codolean, Alexandru; Fülöp, Réka; Schrott, Lothar	Schoch, Anna	Postglacial evolution of large fan systems in the Upper Rhone Valley, Switzerland
Mon-21	5e	Terweh, Simon; Hoffmann, Thomas; Schrott, Lothar	Terweh, Simon	Biotic control on sediment dynamics mediated through grain size distribution in the Chilean Coastal Cordillera
Mon-22	6b	Kölln, Sabine; Conrad, Olaf; Riller, Ulrich	Kölln, Sabine	Quantification of the fractal dimension of cataclasites in granitoid target rocks of the Chicxulub impact crater (Yucatán peninsula, Mexico) using SAGA GIS image analysis
Mon-23	6b	Kuhlmann, Natascha; Thein, Jean; Nagel, Thorsten; Franz, Sven-Oliver; Garbe-Schönberg, Dieter	Kuhlmann, Natascha	The possible influence of the cosmic Impact of Rochechouart (France) on the NE Paris Basin
Mon-24	9a	Anagnostopoulos, Iphigenia; Knof, Johannes; Heuss-Aßbichler, Soraya	Anagnostopoulos, Iphigenia	Recovery of heavy metals from industrial wastewater- challenge of upscaling lab-scale experiments
Mon-25	9a	Berger, Maximilian; Neuhold, Simone; Szedlazeck, Philipp; Höllen, Daniel; Raith, Johann	Berger, Maximilian	Mineralogy and leachability of V, Cr, Cu, Mo, Ni and F from natural rocks: six examples from Austria
Mon-26	9a	Deissmann, Guido; Trincherio, Paolo; Molinero, Jorge; Puigdomenech, Ignasi; Gylling, Björn; Poonoosamy, Jenna; Bosbach, Dirk	Deissmann, Guido	Micro-continuum simulation of Ra-226 migration in fractured crystalline rocks: Application of High Performance Computing to evaluate effects of intrinsic system heterogeneity at the micrometer scale
Mon-27	9a	Günther, Amanda; Wachsmann, Martin; Faist, Christoph; Dittrich, Sebastian; Thome, Volker	Günther, Amanda	An innovative process chain for recovering metals from ashes and slags
Mon-28	9a	Heuser, Julia M.; Ji, Yaqi; Klinkenberg, Martina; Kowalski, Piotr M.; Schlenz, Hartmut; Neumeier, Stefan; Bosbach, Dirk; Deissmann, Guido	Deissmann, Guido	Radiation effects in Sm-monzonite – a potential waste matrix for plutonium and minor actinides
Mon-29	9a	Klinkenberg, Martina; Weber, Juliane; Barthel, Juri; Vinograd, Victor; Poonoosamy, Jenna; Bosbach, Dirk; Brandt, Felix	Klinkenberg, Martina	The Solid Solution – Aqueous Solution System (Ba,Sr,Ra)SO ₄ + H ₂ O at Sr-rich Compositions
Mon-30	9a	Lobanov, Sergey; Daly, John; Parise, John	Lobanov, Sergey	Iodine in metal organic frameworks at high pressure
Mon-31	9a	Lönartz, Mara; Dohmen, Lars; Trautmann, Christina; Lang, Maik; Geisler, Thorsten	Lönartz, Mara	The effect of heavy ion irradiation on the dissolution rate of borosilicate glasses studied in real-time by in situ Raman spectroscopy
Mon-32	9a	Neumeier, Stefan; Kegler, Philip; Klinkenberg, Martina; Niemeyer, Irmgard; Bosbach, Dirk	Kegler, Philip	Microparticle Production as Reference Materials for Particle Analysis Methods in Safeguards
Mon-33	9a	Roebbert, Yvonne; Schippers, Axel; Bernier-Latmani, Rizlan; Weyer, Stefan	Roebbert, Yvonne	Isotopic signature of non-crystalline U(IV) complexation with organic ligands

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No.	Session	Authors	Presenter	Title
Mon-34	9a	Sattler, Theresa Magdalena; Höllen, Daniel	Sattler, Theresa Magdalena	Processing & Recycling of Synthetic Mineral Fibers
Mon-35	9a	Schilling, Frank R.; Müller, Birgit I.R.	Schilling, Frank R.	A Benchmark Experiment for Nuclear Waste Repositories
Mon-36	9a	Weyand, Torben; Larue, Jürgen	Weyand, Torben	Modelling the density-driven flow in deep aquifers up to the quasi-steady state using SPRING
Mon-37	12a	Pabst, Joachim; Herbig, Hans-Georg	Herbig, Hans-Georg	Vagile echinoderms from a Carboniferous pelagic environment – Evidence for the antiquity of the modern deep-water fauna
Mon-38	12a	Hofmayer, Felix; Reichenbacher, Bettina	Hofmayer, Felix	High resolution facies evolution in the early Miocene of the North Alpine Foreland Basin, with a new ostracod fauna contribution
Mon-39	12a	Kerschhofer, Franz Philip; Schreiber, Verena Gabriela; Catunda, Maria Carolina Amorim; Bahr, André; Friedrich, Oliver	Kerschhofer, Franz Philip	Foraminiferal-based reconstruction of changes in thermocline structure across the MIS 30/29 and MIS 22/21 transitions at IODP Site U1313
Mon-40	12a	Könen, Janine	Könen, Janine	Biometric analysis of modern miliolid benthic foraminifera as revealed by high resolution microtomography
Mon-41	12a	Lüddecke, Felix; Hartenfels, Sven	Lüddecke, Felix	New insights into the Famennian of the Minervois Nappe (Ravin de la Fontaine de Santé, southern France)
Mon-42	12a	Pint, Anna; Frenzel, Peter; Engel, Max; Ewald, Judith; Dinies, Michèle; Neugebauer, Ina; Plessen, Birgit; Krahn, Kim J.; Schwarz, Anja; Hoelzmann, Philipp; Brückner, Helmut	Pint, Anna	Micro- and Macrofossils as indicators of Early Holocene palaeoenvironmental changes in the northwestern Saudi Arabia
Mon-43	12a	Pint, Anna; Seeliger, Martin; Frenzel, Peter; Feuser, Stefan; Berndt, Christopher; Pirson, Felix; Brückner, Helmut	Pint, Anna	The environs of Elaia's ancient harbour – a reconstruction based on microfaunal evidence
Mon-44	12a	Weinmann, Anna E.; Langer, Martin R.; Goldstein, Susan T.; Triantaphyllou, Maria V.	Weinmann, Anna E.	What could have been – Implications from laboratory experiments on foraminiferal assemblages for environmental reconstructions
Mon-45	13a	Fuchs, Helena; Reznik, Boris; Schilling, Frank; Kontny, Agnes	Fuchs, Helena	Magnetic and structural behaviour of magnetite subjected to cyclic loading under temperature conditions relevant for the upper crust
Mon-46	13a	Maggini, Massimiliano; Caputo, Riccardo Poster cancelled!	Maggini, Massimiliano	The interplay of strain rate and geometry of shear zones from a rheological modelling perspective
Mon-47	13a	Nardini, Livia; Rybacki, Erik; Morales, Luiz; Dresen, Georg	Nardini, Livia	Effect of loading conditions on the nucleation and development of shear zones around material heterogeneities
Mon-48	13a	Schuck, Bernhard; Schleicher, Anja M.; Janssen, Christoph; Toy, Virginia G.; Dresen, Georg	Schuck, Bernhard	What controls strain localization of the Alpine Fault, New Zealand?
Mon-49	13b	Reiter, Karsten; Henk, Andreas; Heibach, Oliver; Müller, Birgit; Hergert, Tobias; Schilling, Frank	Reiter, Karsten	The SpannEnD project – crustal stress data, stress modelling and modelling tools for the site selection process of a deep geological repository of radioactive waste in Germany
Mon-50	14a	Bense, Frithjof; Stück, Heidrun; Jähne-Klingberg, Fabian	Bense, Frithjof	A seismic interpreter's perspective on geological uncertainty – examples from the assessment of CO ₂ geological storage prospectivity
Mon-51	14a	Bense, Frithjof; Jähne-Klingberg, Fabian; Stück, Heidrun; Müller, Simon; Arfai, Jashar; Wolf, Marco; Wobbe, Astrid; Steuer, Stephan	Bense, Frithjof	Project TUNB – An overview of recent R&D work in the German North Sea sector
Mon-52	14a	Kloke, Ralf; Dresbach, Christian; Schlüter, Detlef	Kloke, Ralf	OpenGEO- an application for geological 3D modelling
Mon-53	14a	Wojatschke, Jasmara; Barth, Gregor; Obst, Karsten	Wojatschke, Jasmara	3D Modeling of Geothermal Reservoirs in Mesozoic Delta Systems of the North German Basin – First Approaches
Mon-54	16a	Kirst, Frederik; Linckens, Jolien	Kirst, Frederik	Exploring the feedback mechanisms between deformation, fluid flow and metamorphism along the subduction interface: The record within metasediments from the Western Alps
Mon-55	16a	Kurganskaya, Inna; Arvidson, Rolf S; Churakov, Sergey V; Lutge, Andreas	Kurganskaya, Inna	Formulating Kinetic Monte Carlo models of crystal dissolution and growth
Mon-56	16a	Richter, Madeline; Löwe, Georg; Onuzi, Kujtim; Ustaszewski, Kamil	Richter, Madeline	Tectonometamorphic and hydraulic processes along a fossil subduction plate interface gleaned from detailed mapping in the northern Mirdita Ophiolites (Bajram Curr, Albania)



No.	Session	Authors	Presenter	Title
Mon-57	16a	Saar, Olga	Saar, Olga	A retrograde epidote-amphibolite shear zone of Storekorsenes, Norway.
Mon-58	16b	Büssing, Robert; Bartzke, Gerhard; Fischer, Cornelius; Lüttge, Adreas; Huhn-Freher, Katrin	Büssing, Robert	Investigation of the influence of fluid flow on the mass transport on the microscale using 3D numerical simulation
Mon-59	16b	Neumann, A.; Svensson, K.; Pöllmann, H.; Menezes, F.; Lempp, C.	Neumann, Andreas	Investigation of the impact of CO ₂ and associated compounds on the Grey Wesersandstone in the presence of formation waters at non ambient conditions
Mon-60	16b	Pedrosa, Elisabete Trindade; Newesly, Wesam; Fischer, Cornelius; Arvidson, Rolf; Lüttge, Andreas	Pedrosa, Elisabete Trindade	The effect of orientation and location of calcite dissolution kinetics
Mon-61	16b	Pöllmann, Herbert ; Neumann, Andreas; Menezes, F.; Svensson, K.; Lempp, Ch.; Göske, J.; Winter, S.	Neumann, Andreas	Quartz habits and secondary pseudomorphs in the Grey Wesersandstein
Mon-62	16b	Rahnamarad, Jafar; Saadatkhah, Nader; Gereshki, Amirreza	Rahnamarad, Jafar	Study on Leakage around the Proposed Dam Foundation based on Site Geotechnical Properties and Rock Mass Structure
Mon-63	16b	Roeser, Patricia; Costa, Adivane; Queiroz, Gilberto; Scudino, Paulo; Friese, Kurt; Kipfer, Rolf	Roeser, Patricia	Remobilization of geogenic contaminants in groundwater and mine waters in the former mining district city of Ouro Preto, Minas Gerais (SE, Brazil): a pilot study
Mon-64	16b	Schneider, Magnus; Eiche, Elisabeth; Kontny, Agnes; Neumann, Thomas	Schneider, Magnus	Arsenic dynamic across an iron mineral dominated redox transition zone
Mon-65	16c	Berkels, Dennis; Massonne, Hans-Joachim; Fockenberg, Thomas	Berkels, Dennis	Preliminary experimental results on phase relations in the system K ₂ O-Al ₂ O ₃ -SiO ₂ -H ₂ O at 8-12 GPa to understand phase relations after deep subduction of continental crust
Mon-66	17a	Abu-Ali, Rania; El-Kammar, Ahmed	Abu-Ali, Rania	Chemostratigraphic study on the Upper Cretaceous-Paleogene sedimentary sequence in Wassief area, Safaga, Egypt
Mon-67	17a	Ahlers, Steffen; Hergert, Tobias; Henk, Andreas	Ahlers, Steffen	Numerical modelling of salt-related stress decoupling in the North German Basin
Mon-68	17a	Arndt, Josephine Louise Iris; Frisch, Konstantin; Voigt, Silke	Arndt, Josephine Louise Iris	Relationship between sediment facies and stable isotopes within a lacustrine sequence of mid-Miocene age in SE Kazakhstan
Mon-69	17a	Brune, Rouven Benedikt; Berndt, Paul; Flenner, Dennis; Pavlak, Johanna	Brune, Rouven Benedikt	Electrical Resistivity Tomography of the Lichtenstein cave system (Harz, Germany)
Mon-70	17a	Degenhardt, Tino; Fischer, Alexandra; Trinkler, Michael; Schiller, Wolfgang; Prinz-Grimm, Peter	Degenhardt, Tino	Geological Investigations on a suspected Fault Line in the north-western Vogelsberg Region by means of Core Drilling
Mon-71	17a	Drews, Effi-Laura; Lallensack, Jens; Sander, P. Martin; Wings, Oliver	Drews, Effi-Laura	Osteological description of plateosaur remains from the Keuper of Thuringia
Mon-72	17a	Hättig, Katrin; Stevens, Kevin; Thies, Detlev; Schweigert, Günter; Mutterlose, Jörg	Hättig, Katrin	Reconstruction of the Nusplingen Plattenkalk paleoenvironment with fossil shark-teeth geochemistry
Mon-73	17a	Heineke, Caroline; Hetzel, Ralf; Akal, Cüneyt; Christl, Marcus	Heineke, Caroline	Lifespan of water reservoirs estimated from cosmogenic ¹⁰ Be in stream sediment – A case study from Western Turkey
Mon-74	17a	Johnen, Marc; Seher, Holger; Weyand, Torben; Artmann, Andreas	Johnen, Marc	Modelling the transport behaviour of contaminants potentially released by decommissioning wastes deposited on generic landfills to the groundwater, using the transport code SPRING
Mon-75	17a	Kremser, Rosalie; Freudenberg, Leah; Korsten, Philip; Biermanns, Peter; Schmitz, Benjamin; Reicherter, Klaus	Kremser, Rosalie	Tectonics shaping the landscape of Southern Montenegro and Northern Albania: A multidisciplinary study of Holocene surface processes at the Dinarides-Hellenides transition.
Mon-76	17a	Reinelt, Melanie; Heiko, Pälke	Reinelt, Melanie	Chaos of the Solar System: A method to detect chaotic transitions in Geological Time Series
Mon-77	17a	Rezaei, Leila; Timmerman, Martin J.; Moazen, Mohssen	Rezaei, Leila	Geochemical characteristics of gabbroic rocks in the Gasht-Masuleh area, Alborz Mts., north Iran
Mon-78	17a	Skopincev, Nikita	Skopincev, Nikita	Mapping of a duplex structure within the Middle Allochthon in the northern Fjällfjäll Window (N-Caledonides, N-Sweden)

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Mon-79	17a	Utami, Dwi Amanda; Reuning, Lars	Utami, Dwi Amanda	Microplastic accumulation in different sedimentary environments of patch reef systems (Kepulauan Seribu complex, Indonesia).
Mon-80	17a	Vossel, Hannah; Burfeid Castellanos, Andrea M.; Xavier, Benito	Vossel, Hannah	YOUNG ISDR, a new international platform for early career diatomists
Mon-81	17a	Weimar, Nadine Elisabeth; Schmidt, Katja; Erika, Kurahashi; Michael, Bau	Weimar, Nadine Elisabeth	Base flow colloidal and truly dissolved distribution of particle-reactive rare earths and yttrium in the Kalix and Råne Rivers, Northern Sweden, reveal a terrestrial origin of seawater REY patterns
Mon-82	17a	Weinstock, Stefanie; Marien, Chris S.; Ballhaus, Chris; Wilson, Allan; Münker, Carsten	Weinstock, Stefanie	Geochemistry and Petrology of volcanic rocks from the BARB1 and BARB2 drill cores of the Komati Formation, Barberton Greenstone Belt, South Africa
Mon-83	17a	Zindler, Robin; Pallapies, Kilian; Warnke, Fynn	Zindler, Robin	Geomagnetic investigation of a crashed military JU88 Aircraft in Lake Zwischenahn

Tuesday, 4 Sept., 16:45-18:15, Session: 1a | 1b | 1c | 2a | 3a | 3b | 3c | 5f | 6a | 7c | 8a | 8e | 9d | 10c+e | 10g | 11b | 11c | 15a

No.	Session	Authors	Presenter	Title
Tue-01	1a	Fischer, Meike B.; Maksumic, Benjamin; Peters, Stefan T. M.; Sengupta, Sukanya; Hartogh, Paul; Pack, Andreas	Fischer, Meike B.	Oxygen isotope fractionation in equilibrated high-temperature feldspar-rich rocks
Tue-02	1a	Pittarello, Lidia; Ntaflou, Theodoros	Pittarello, Lidia	P zoning in olivine in type IIA chondrules: record of a complex magmatic history?
Tue-03	1c	Brüske, Annika; Weyer, Stefan; Albut, Gueluem; Schuth, Stefan; Schoenberg, Ronny; Beukes, Nic; Hofmann, Axel; Nägler, Thomas	Weyer, Stefan	Tracing the onset of oxidative weathering with uranium isotopes
Tue-04	1c	Hasenstab, Eric; Schmitt, Vera; Marien, Christian; Tusch, Jonas; Kranendonk, Martin van; Schneider, Kathrin; Hoffmann, Elis; Münker, Carsten	Hasenstab, Eric	Hafnium and Nd isotope systematics of Pilbara basalts and komatiites from the Pilbara craton, Australia: tracing changes of Archean mantle composition through time.
Tue-05	1c	Sengupta, Sukanya; Breedveld, Gregor; Bau, Michael; Pack, Andreas	Sengupta, Sukanya	High precision triple oxygen isotope study of a Mesoarchean Banded Iron Formation of the Pongola Supergroup, South Africa
Tue-06	1b	Viehmann, Sebastian; Hohl, Simon V.; Krämer, Dennis; Bau, Michael; Walde, Detlef H.G.; Galer, Stephen J.G.; Jiang, Shao-Yong; Meister, Patrick	Viehmann, Sebastian	The reconstruction of microbial habitats during Mesoproterozoic stromatolite formation
Tue-07	2a	Rahn, Mirjam; Kukla, Peter	Rahn, Mirjam	Virtual 3D-Deposit model and resource estimation of a Seafloor Massive Sulfide deposit at the Mid-Atlantic Ridge
Tue-08	2a	Schwarzenbach, Esther Martina; Liebmann, Janne; Früh-Green, Gretchen; Strauss, Harald; Wiechert, Uwe; Gill, Benjamin; Johnston, David	Schwarzenbach, Esther Martina	Peridotite-fluid-microbe interaction in the oceanic lithosphere: insights from sulfur geochemistry
Tue-09	2a	Walter, Maren; Mertens, Christian; Köhler, Janna; Sültenfuß, Jürgen; Rhein, Monika	Walter, Maren	Hydrothermal $\delta^3\text{He}$ anomalies above slow and ultraslow spreading ridges
Tue-10	2a	Zhang, Chao; Koepke, Jürgen; Namur, Olivier	Zhang, Chao	MORB modified by melt-peridotite interaction at crust-mantle boundary: An experimental perspective
Tue-11	3a	Ditterová, Hana; Konrad-Schmolke, Matthias; Chew, D.	Ditterová, Hana	Decoding Rare Earth Element (REE) patterns in HP/LT garnets
Tue-12	3a	Ferrero, Silvio; O'Brien, Patrick J.; Borghini, Alessia; Wunder, Bernd; Wälle, Markus; Günter, Christina; Ziemann, Martin A.	Ferrero, Silvio	Crustal melting in the Bohemian Massif: a treasure chest full of nanogranitoids
Tue-13	3a	Herms, Petra; Giehl, Christopher; Appel, Peter; Möller, Andreas; Raase, Peter	Herms, Petra	Melting in high-pressure granulite-facies metapelites from a 2 Ga old subducted oceanic crust: evidence from polymineralic inclusions
Tue-14	3a	Rahimi, Gelareh; Massonne, Hans-Joachim	Rahimi, Gelareh	Evolution of Saxothuringian medium-grade metapelites from the Vogtland combining geothermobarometry and monazite in-situ dating



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Tue-15	3a	Real, Christophe; Ferrando, Simona; Carosi, Rodolfo; Faßmer, Kathrin; Froiztheim, Nikolaus; Rubatto, Daniela; Groppo, Chiara	Real, Christophe	The pre-Alpine polymetamorphic basement of the Southern Alps: A new petro-geochronological data set from the Dervio-Olgiasca Zone.
Tue-16	3b	Behrmann, Jan H.; Schneider, Jakob; Zitzow, Benjamin	Behrmann, Jan H.	Fault slip analysis on Amorgos Island (Greece)
Tue-17	3b	Bousquet, Romain; Oberhänsli, Roland; Schmid, Stefan M.; Candan, Osman; Pourteau, Amaury	Bousquet, Romain	Tectonic and metamorphic frameworks of the Eastern Mediterranean: a preliminary work.
Tue-18	3b	Gerogiannis, Nikolaos; Xypolias, Paris; Chatzaras, Vasileios; Aravadinou, Eirini; Papapavlou, Konstantinos	Xypolias, Paris	Structural evolution of the Makrotantalo nappe (Cyclades, Greece)
Tue-19	3b	Gürer, Derya; Kirst, Frederik; Gerdes, Axel; Albert, Richard; Linckens, Jolien	Kirst, Frederik	In-situ U-Pb ages of multiple generations of calcite veins related to the Ivriz Detachment, Central Anatolia
Tue-20	3b	Gürsu, Semih; Koksall, Serhat; Möller, Andreas	Gürsu, Semih	Geochemical and isotopic data of meta-gabbroic dikes in Alaşehir Area in the Menderes Massif, Western Turkey: Evidence for the early Cambrian Back-Arc rifting
Tue-21	3b	Löwen, Kersten; Meinhold, Guido; Arslan, Arzu; Güngör, Talip; Berndt, Jasper	Meinhold, Guido	Evolution of the Palaeotethys in the Eastern Mediterranean: Age, provenance and tectonic setting of the Upper Palaeozoic Konya Complex and its Mesozoic cover sequence (south-central Turkey)
Tue-22	3b	Martha, Silviu O.; Zulauf, Gernold; Dörr, Wolfgang; Binck, Jannes J.; Nowara, Patrick M.; Xypolias, Paraskevas	Martha, Silviu O.	The Uppermost Unit south of the Dikti Mountains, eastern Crete (Greece): constraints on the tectonometamorphic evolution of the Internal Hellenides
Tue-23	3b	Nilius, Nils-Peter; Glotzbach, Christoph; Wölfler, Andreas; Dunkl, Istvan; Akal, Cüneyt; Heineke, Caroline; Hetzel, Ralf; Hampel, Andrea	Nilius, Nils-Peter	Thermochronological constrains on the bivergent exhumation of the Menderes Massif (western Turkey) along the Gediz and Büyük Menderes detachments
Tue-24	3b	Seybold, Lina; Trepmann, Claudia A.; Janots, Emilie	Seybold, Lina	Extensional shear bands in HP-LT metamorphic rocks in the Talea Ori, central Crete, Greece
Tue-25	3c	Chellai, El Hassane	Chellai, El Hassane	Some thoughts on the geodynamic and sedimentary evolution of the atlasic domain, Morocco
Tue-26	3c	Hauke, Matthias; Froitzheim, Nikolaus; Münker, Carsten	Hauke, Matthias	Subduction channel vs. progressive accretion: Insights from the Western Alps
Tue-27	5f	Henneberg, Mareike; Onneken, Julia; Schramm, Michael; Schubert, Thora; Hammer, Jörg	Henneberg, Mareike	Variations in the mineralogical composition of impure rock salt successions (Rotliegend, Zechstein, Keuper) from the North German Basin- first results
Tue-28	5f	Nádaskay, Roland; Kochergina, Yulia V.; Čech, Stanislav; Švábenická, Lillian; Valečka, Jaroslav; Čejková, Bohuslava Changed to talk! (Tue, 4.9., 10:15, HS I)	Nádaskay, Roland	Integrated stratigraphy of an offshore environment influenced by intense siliciclastic supply: implications for Coniacian tectonosedimentary evolution of the West Sudetic area (NW Bohemian Cretaceous Basin, Czech Republic)
Tue-29	5f	Wilmsen, Markus; Dölling, Bettina; Hiss, Martin; Niebuhr, Birgit	Wilmsen, Markus	The Cenomanian–Lower Coniacian (Upper Cretaceous) of the south-eastern Münsterland Cretaceous Basin, Germany: integrated stratigraphy, facies development and correlation
Tue-30	6a	Abbas, Wahid; Reicherter, Klaus	Abbas, Wahid	Stratigraphic Control on Seismic Behavior in the Vicinity of Kalabagh Fault, Sub Himalayas, Pakistan.
Tue-31	6a	Bruns, Ines; Bungenstock, Friederike; Karle, Martina	Bruns, Ines; Bungenstock, Friederike	Holocene landscape change of the coastal area of NW Germany - Mapping and first chronology of prehistorical storm surge layers
Tue-32	6a	Bungenstock, Friederike; Siegmüller, Annette; Schlotfeldt, Saryn	Bungenstock, Friederike	Holocene sea level rise and prograding coastlines in NW Germany: A beach ridge chronology based on shifting settlement remnants over time?
Tue-33	6a	Feist, Lisa; Bellanova, Piero; Mathes-Schmidt, Margret; Reicherter, Klaus; Laermanns, Hannes; Brückner, Helmut	Feist, Lisa	The AD 1755 tsunami and other extreme wave events in Boca do Río, Portugal
Tue-34	6a	Kummer, Sabine; Wagner, Dr. Florian; Heidemann, Niklas; Hoffmann, PD Dr. Gösta	Kummer, Sabine	Geophysical investigations on the Eifel Aqueduct

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Tue-36	6a	Mechernich, Silke; Dahms, Hannah; Papanikolaou, Ioannis; Reicherter, Klaus	Mechernich, Silke	Postglacial slip rate variability of the Lastros normal fault (eastern Crete, Greece)
Tue-37	6a	Seeger, Katharina	Seeger, Katharina	Towards using sedimentary evidence of modern tropical cyclone deposits for long-term hazard assessment in Chaung Thar, Myanmar
Tue-38	6a	Seeliger, Martin	Seeliger, Martin	Foraminifera as markers of Holocene sea-level fluctuations and water depths of ancient harbours — A case study from the Bay of Elaia (W Turkey)
Tue-39	7c	Altona, Karim T.; Spieß, Iris; Schneider, Hartmut; Fischer, Reinhard X.	Altona, Karim T.	Characterization of germanium-/silicon mullites in the solid-solution series (SiO ₂ ,GeO ₂)-Al ₂ O ₃
Tue-40	7c	Beirau, Tobias; Nix, William D.; Ewing, Rodney C.; Pöllmann, Herbert; Salje, Ekhard K.H.	Beirau, Tobias	Radiation-damage-induced transitions in zircon: Percolation theory and the mechanical properties
Tue-41	7c	Bismayer, Ulli; Zietlow, Peter; Beirau, Tobias; Salje, Ekhard; Groat, Lee; Mihailova, Boriana; Toledano, Pierre	Bismayer, Ulli	Macroscopic and nanoscopic phenomena of the metamict state- titanite and pyrochlore
Tue-42	7c	Fink, Reinhard; Bertier, Pieter; Krooss, Bernhard; Weniger, Philipp	Fink, Reinhard	Interlayer water increases high-pressure CO ₂ sorption capacity of SWy-2 Montmorillonite
Tue-43	7c	Herold, Andreas Maximilian; Techmer, Kirsten; Rybak, Jan Erik	Herold, Andreas Maximilian	Microstructures of pyrite studied by Electron Back Scatter Diffraction (EBSD)
Tue-44	7c	Li, Xiaodong; Wang, Qianqian; Lüttge, Andreas; Shen, Xiaodong Poster cancelled!	Li, Xiaodong; Lüttge, Andreas	Multiscale dissolution rate investigation on the same olivine (0 1 0) surface
Tue-45	7c	M.Yosefnejad, Davood; Nover, Georg	M.Yosefnejad, Davood	Detecting Co ₂ flow in porous media by electrical resistivity method
Tue-46	7c	Müller, Dirk; Hess, Kai-Uwe; Wolf, Gerhard; Rokicki, Pawel; Palchyk, Volodymyr; Dingwell, Donald Bruce	Hess, Kai-Uwe	The VAsCo project – an integrated experimental approach to investigate the chemical interaction of volcanic ash with thermal barrier coatings of jet engine turbines
Tue-47	7c	Nawrocki, Marcin; Birkenstock, Johannes	Birkenstock, Johannes	Impacts on composition and thermal behavior of zeolite A (LTA) by extended washing with pure water – preliminary results
Tue-48	7c	Reissner, Claudia; Bismayer, Ulrich; Nix, William D.; Ewing, Rodney C.; Pöllmann, Herbert; Beirau, Tobias	Reissner, Claudia	Mechanical and structural properties of radiation-damaged allanite-(Ce)
Tue-49	7c	Todor, Andrei Ludovic; Birkenstock, Johannes; Fischer, Reinhard X.; Schneider, Hartmut	Birkenstock, Johannes	Two-phase mullites derived from fluorotopaz treatment and 3:2 mullite originating from combustion buchites
Tue-50	7c	Zimmer, Sinje; Stange, Kerstin; Kehren, Johannes; Geisler, Thorsten	Zimmer, Sinje	In situ hyperspectral Raman imaging of the high-temperature sintering reactions in calcite-kaolinite mixtures
Tue-51	8e	Böttcher, Helen Clarissa; Litt, Thomas; Rethemeyer, Janet; Schefuß, Enno	Böttcher, Helen Clarissa	Reconstruction of hydrological and vegetation changes in northern Israel during the last 30,000 years by pollen and isotope analyses of plant leaf waxes
Tue-52	8e	Landgraf, Jessica; Hoffmann, Gösta; Decker, Valeska	Landgraf, Jessica	Sedimentological and paleontological investigation of Holocene mangrove swamps in Oman
Tue-53	8e	Leupold, Maike; Pfeiffer, Miriam; Watanabe, Takaaki; Garbe-Schönberg, Dieter; Reuning, Lars; Shen, Chuan-Chou	Leupold, Maike	Monthly resolved sea surface temperatures of the tropical Indian Ocean for the last centuries inferred from coral-Sr/Ca measurements
Tue-54	8e	Miebach, Andrea; Chen, Chunzhu; Litt, Thomas	Miebach, Andrea	A 150,000-Year Vegetation and Climate History: The New Dead Sea Pollen Record
Tue-55	8e	Pickarski, Nadine; Litt, Thomas	Pickarski, Nadine	Preliminary Results of Volcanic Impacts on Ecological Systems Based on Annually Laminated Sediments from Lake Van, Turkey
Tue-56	8e	Stolzenberger, Sophie; Hense, Andreas	Stolzenberger, Sophie	How can we combine model and proxy data for paleoclimate reconstructions?





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Tue-58	8e	Ziemann, Martin A.; Fohlmeister, Jens; Trüssel, Martin	Ziemann, Martin A.	Raman spectroscopic investigation of mechanisms of calcite-aragonite transitions of a Holocene high-alpine stalagmite from Central Switzerland
Tue-59	9d	Fischer, Lennart Alexander; Charlier, Bernard; Namur, Olivier; Holtz, Francois	Fischer, Lennart Alexander	Constraints on the parental magma of the Upper and Upper Main Zone of the Bushveld Complex
Tue-60	9d	Junge, Malte; Wirth, Richard; Oberthür, Thomas; Melcher, Frank	Junge, Malte	How do platinum-group elements occur in sulfides – as solid solution or as nanometer-sized inclusions?
Tue-61	9d	Kaufmann, Anne; Pettke, Thomas; Baumgartner, Lukas	Kaufmann, Anne	Element partitioning at the magmatic-hydrothermal transition in a shallow plutonic system
Tue-62	9d	Kaufmann, Felix Emil David; Hoffmann, Marie C.; Bachmann, Kai; Veksler, Ilya V.; Trumbull, Robert B.; Hecht, Lutz	Kaufmann, Felix Emil David	The mineralogy, geochemistry and PGE variations in LG and MG chromitites of the northwestern Bushveld Complex, South Africa
Tue-63	9d	Müller, Gerrit; Deckart, Katja; Moncada, Daniel; Geisler, Thorsten; Carranza, Mauricio; Cabello, Pablo	Müller, Gerrit	Properties, Processes and Products of Evolving Hydrothermal Fluids at the Los Bronces Porphyry Cu(-Mo) deposit, Central Chile
Tue-64	9d	Ribacki, Enrico; Altenberger, Uwe; Kullerud, Kåre; Günter, Christina	Ribacki, Enrico	Characterization of Native Silver and Associated Minerals in the Vinoren Area, Kongsberg Silver District
Tue-65	10c, e)	Schucht, Pia Janina; Klein, Nicole; Sander, P. Martin; Lambertz, Markus	Schucht, Pia Janina	A comparison of different histological approaches for skeletal-chronological age determinations
Tue-66	10g	Hörnig, Marie K.; Haug, Carolin; Fischer, Thilo; Haug, Joachim T.	Hörnig, Marie K.	Fossil insect eggs in amber
Tue-67	10g	Schädel, Mario; Perrichot, Vincent; Haug, Joachim T.	Schädel, Mario	Marine larvae in Cretaceous amber – important insight into the evolution of parasitic life habits of epicaridean isopods
Tue-68	10g	Schwermann, Achim H.; Schöllmann, Lothar; Pott, Christian	Schwermann, Achim H.	A terrestrial vertebrate fauna from the Lower Cretaceous (Barremian–Aptian) of Balve, Westphalia, Germany
Tue-69	10g	Stegemann, Tanja R.; Reich, Mike	Stegemann, Tanja R.	Functional morphology of apodid body-wall ossicles (Echinodermata: Holothuroidea) from the Late Triassic Cassian Formation, Italy
Tue-70	11b	Pazinato, Paula G.; Haug, Joachim T.	Pazinato, Paula G.	Identifying species, dealing with deformed specimens – thoughts on the species of the pygocephalomorph group Liocaris from the Lower Permian of Brazil
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Tue-72	11c	Graeber, Felix; Tomaschek, Frank; Lagos, Markus; Sander, Martin; Geisler, Thorsten	Graeber, Felix	U-Pb analyses of fossil bone apatite from the Upper Jurassic Morrison Formation (USA)
Tue-73	11c	Janssen, Kathrin; Steffens, Ursula; Mähler, Bastian; Rust, Jes; Bierbaum, Gabriele	Janssen, Kathrin	The impact of bacterial activity on decay and fossilization of arthropods: An experimental approach
Tue-74	11c	Mähler, Bastian; Geisler, Thorsten; Rust, Jes	Mähler, Bastian	Mineralization of muscles and precipitation of crystal clusters during the decomposition of <i>Cambarellus diminutus</i> (Decapoda: Cambaridae) in freshwater
Tue-75	11c	Wiersma, Kayleigh; Läbe, Sashima; Koschowitz, Marie-Claire; Lambertz, Markus; Sander, P. Martin	Wiersma, Kayleigh	Preliminary results to the organic phase (extracellular matrix, osteocyte, blood vessel) preservation in dinosaur bone: imaging the organic remains in fossilized bone
Tue-76	15a	Bornemann, André; Hiß, Martin; Plattetschläger, Franz	Bornemann, André	LithoLex – relaunched
Tue-77	15a	Steuer, Stephan; Thorpe, Stephen	Steuer, Stephan	Let's play! – The use of Minecraft® to communicate the complexity of the deep subsurface to the public



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Wed-02	2b	Koenemann, Falk H.	Koenemann, Falk H.	Physics and kinematics of S-C-fabric in plastic shear zones
Wed-03	2b	Kossak Glowczewski, Jacek; Froitzheim, Niko; Keppler, Ruth	Kossak Glowczewski, Jacek	Quartz textures related to exhumation of subducted continental crust: The northern range of the Vals-Scaradra Shear Zone at the front of the Adula Nappe (Central Alps, Switzerland) preliminary results
Wed-04	2b	Kuehn, Rebecca; Stipp, Michael; Leiss, Bernd	Stipp, Michael	Textures of phyllosilicate-bearing mud sediments indicating localized deformation in the continental wedge of the Costa Rica erosive margin
Wed-05	2b	Linckens, Jolien; Brey, Gerhard	Linckens, Jolien	Deformation and metasomatism of a mantle xenolith from Kimberley, Kaapvaal Craton
Wed-06	2b	Morales, Luiz F. G.; Till, Jessica; Rybacki, Erik	Morales, Luiz F. G.	Microstructural observations on oxide-rich gabbros from the Atlantis Bank oceanic core complex, Southwest Indian Ridge (ODP Hole 735B)
Wed-07	2b	Kurzawski, Robert M.; Stipp, Michael; Niemeijer, André R.; Charpentier, Delphine; Behrmann, Jan H.; Spiers, Chris J.	Stipp, Michael	Frictional behavior of sediments in the shallow subduction channel of the erosive active continental margin offshore Costa Rica
Wed-08	2d	Agarwal, Amar; Alva Valdivia, Luis Manuel; García-Amador, Bernardo	Agarwal, Amar	Paleomagnetism and tectonics from the late Pliocene to late Pleistocene in the Xalapa monogenetic volcanic field, Veracruz, Mexico
Wed-09	2d	Eberts, Andreas; Schaarschmidt, Anna; Bauer, Wolfgang; Stollhofen, Harald; de Wall, Helga	Eberts, Andreas	Morphotectonic analysis of basement and cover units in eastern Bavaria, SE Germany- insights into the deeper crustal architecture?
Wed-10	2d	Flesch, Rosa Johanna; Eisermann, Jan Oliver; Riller, Ulrich	Flesch, Rosa Johanna	Importance of convergence angles on the evolution of fault patterns in transpression zones inferred from analogue modeling
Wed-11	2d	Kettermann, Michael; von Hagke, Christoph; Winhausen, Lisa; Bücken, Daniel; Weismüller, Christopher; Urai, Janos L.	Kettermann, Michael	Massively dilatant faulting at divergent plate boundaries – a new model for faults in the upper crust at rift zones based on analogue models and field studies in Iceland
Wed-12	2d	M.Yosefnejad, Davood; J.Nagel, Thosten; Froitzheim, Nikolaus	M.Yosefnejad, Davood	Three-dimensional modelling of the Eastern Alps
Wed-13	2d	Martinet, Ina; Fassmer, Kathrin; Miladinova, Irena; Froitzheim, Nikolaus; Sprung, Peter; Fonseca, Raúl O.C.; Münker, Carsten	Martinet, Ina	Lu-Hf garnet geochronology of UHP-rocks: Investigations of the Tromsø Nappe (Northern Norway)
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Wed-15	2d	Schmitz, Benjamin Johannes; Biermanns, Peter; Pingel, Janis; Đaković, J.; Reicherter, Klaus; Ustaszewski, Kamil	Schmitz, Benjamin Johannes	Structural framework of the 1979 Mw 7.1 Montenegro earthquake
Wed-16	2d	Tomasek, Jan; Szameitat, Annika; René, Miloš; Dunkl, István; Kley, Jonas	Tomasek, Jan	Cenozoic Exhumation and Fault Activity of the Western Eger Rift, Czech Republic, from Low Temperature Thermochronology
Wed-17	2d	Weismüller, Christopher; Kettermann, Michael; von Hagke, Christoph; Urai, Janos L.; Reicherter, Klaus	Weismüller, Christopher	3D surface reconstruction and analysis of massively dilatant faults in Iceland
Wed-18	2d	Zhang, Yiqiong; Froitzheim, Nikolaus; Tsai, Chin-Ho; Ustaszewski, Kamil	Zhang, Yiqiong	The Yuli Belt in the eastern Taiwan fold-and-thrust belt: A Miocene accretionary prism separating Eurasian and Philippine Sea Plates
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Wed-20	4a	Van Acken, David; Luguët, Ambre; Montanini, Alessandra; Tribuzio, Riccardo; Daly, J. Stephen	Luguët, Ambre	Pyroxenites as tracers for melt-rock interaction and recycled material in the oceanic mantle
Wed-21	4a	Meides, Nora; van Acken, David; Luguët, Ambre; Montanini, Alessandra; Tribuzio, Riccardo	Meides, Nora	Highly siderophile elements and 187Os signatures in single grain Base Metal Sulfides of pyroxenites from the External Liguride Peridotite Massif, Italy
Wed-22	4a	Stuff, Maria; Schuessler, Jan A.; Rocholl, Alexander; Wilke, Max	Stuff, Maria	In-situ iron isotope analyses of olivine and magnetite grains in a melilitite bomb from the Salt Lake Crater

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Wed-25	4b	Buchen, Johannes; Schulze, Kirsten; Kurnosov, Alexander; Boffa Ballaran, Tiziana; Speziale, Sergio; Kawazoe, Takaaki; Koch-Müller, Monika; Marquardt, Hauke	Buchen, Johannes	Tracing Water in the Transition Zone: From Single-Crystal Elasticity to Seismic Observables
Wed-26	4b	Duarte, Sílvia S.; Betts, Peter G.; Cruden, Alexander R.	Duarte, Sílvia S.	Subducting slabs interactions with stratified and stress-dependent viscosity mantle
Wed-27	4b	Nagel, Thorsten; Düsterhöft, Erik; Schiffer, Christian	Nagel, Thorsten	Why the mantle transition zone does not appear to be thinned at plume sites
Wed-28	4b	Satta, Niccolò; Marquardt, Hauke; Kurnosov, Alexander; Boffa-Ballaran, Tiziana; Buchen, Johannes; McCammon, Catherine; Kawazoe, Takaaki	Satta, Niccolò	Single-crystal elasticity of iron-bearing phase E by Brillouin spectroscopy and seismic detection of water in Earth's upper mantle
Wed-29	4b	Spiekermann, Georg; Wilke, Max; Petitgirard, Sylvain; Gilmore, Keith; Harder, Manuel; Sternemann, Christian	Wilke, Max	Determination of the structure of amorphous GeO ₂ up to 100 GPa by X-ray emission spectroscopy
Wed-30	4c	Günther, Thomas; Woelki, Dominic; Storch, Bettina; Beier, Christoph; Haase, Karsten	Günther, Thomas	Evolution and genesis of calc-alkaline magmas at the Paphsanias Volcanic Field, Aegean Arc
Wed-31	4c	Sudo, Masafumi; Strecker, Manfred R.; Hahne, Kai; Riedl, Simon; Lopeyok, Tito; Mibei, Geofrey	Sudo, Masafumi	Tectono-magmatic evolution of Paka volcano, northern Kenya Rift: new insights from magma chemistry and systematic Ar/Ar dating
Wed-32	4c	van Gerve, Thomas Daniel; Neave, David; Namur, Olivier; Holtz, Francois; Almeev, Renat	van Gerve, Thomas Daniel	The Shatsky Rise volcanic plumbing system: magma transport dynamics and storage conditions recorded by a crystal mush.
Wed-33	5a	Gaus, Garri; Fink, Reinhard; Krooss, Bernhard Martin; Littke, Ralf	Gaus, Garri	Stress-dependence of the total gas storage capacity of carbonate shales
Wed-34	5a	Hbib, Nasser; Mansfeld, Arne; Nover, Georg	Hbib, Nasser	Porenraumparameter von Sandsteinen und spektrale induzierte Polarisation (SIP): Abhängigkeit des komplexen elektrischen Widerstands vom hydrostatischen Druck und chemischer Beeinflussung durch superkritisches CO ₂ (scCO ₂)
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Wed-36	5a	Nover, Georg; Heikamp, Stephanie; von der Gönna, Jutta	Nover, Georg	Changes of petrophysical properties of sandstones due to interaction with supercritical carbon dioxide
Wed-37	5d	Berensmeier, Michaela; Dölling, Bettina; Frijia, Gianluca; Wilmsen, Markus	Berensmeier, Michaela	The proximal Late Cretaceous epicontinental shelf of northern Germany: a five-component depositional system
Wed-38	5d	Deik, Hanaa; Reuning, Lars; Petrick, Benjamin; Takayanagi, Hideko	Deik, Hanaa	Hardened faecal pellets as a significant component in deep water, subtropical marine environments
Wed-39	5d	Hallenberger, Maximilian; Reuning, Lars; Iwatani, Hokuto	Hallenberger, Maximilian	The influence of oceanography and climate as control on Quaternary carbonate sedimentation along the North West Shelf of Australia (NWS)
Wed-40	5d	Müller, Pierre; Patacci, Marco; Di Giulio, Andrea	Müller, Pierre	Axial hybrid event bed development in a pre-collisional low-efficiency turbidite system: the Bordighera Sandstones (NW Italy)
Wed-41	5d	Nokar, Kim Roya; Reuning, Lars; Back, Stefan; Meissner, Philipp; Kukla, Peter	Nokar, Kim Roya	Analysing the distribution of facies types within Zechstein carbonates of the North German Basin
Wed-42	5d	Thronberens, Sebastian; Back, Stefan; Reuning, Lars; Bourget, Julien	Thronberens, Sebastian	Miocene to Pliocene reef demise in the Browse Basin, NW Australia - A closer look on the transition to drift deposition.
Wed-43	5d	Wilmsen, Markus; Storm, Marisa; Fürsich, Franz Theodor; Majidifard, Mahmoud Reza; Schlagintweit, Felix; Hart, Malcolm	Wilmsen, Markus	The mid-Cretaceous Debarsu Formation (Upper Albian–Turonian, Khur area, Central Iran): depositional environment, correlation and inter-regional significance



No.	Session	Authors	Presenter	Title
Wed-44	7a	Pollok, Kilian; Nayak, Prasant Kumar; Yang, Li-angtao; Langenhorst, Falko; Adelhelm, Philipp <i>Changed to oral!</i>	Pollok, Kilian	Mineralogy meets Energy: Insights from TEM-EELS to Performance and Ageing of Mn and Fe based Layered Oxide Materials used as Battery Cathode Material
Wed-45	7a	Berns, Anne E.; Gottselig, Nina; Seckfort, Charlotte; Hezel, Dominik; Xing, Ying; Münker, Carsten; Amelung, Wulf; Bol, Roland; Wu, Bei	Berns, Anne E.	Iron reservoirs in a forested headwater catchment: stocks and isotopy
Wed-46	7a	Braun, Anika; Tomaschek, Frank; Lagos, Markus; Geisler, Thorsten	Braun, Anika	U-Pb dating of hydrothermal vein agate using LA-ICP-MS
Wed-47	7a	Fusswinkel, Tobias; Giehl, Christopher; Beermann, Oliver; Fredriksson, Johan Rafael; Garbe-Schönberg, Dieter; Scholten, Lea; Wagner, Thomas	Fusswinkel, Tobias	LA-ICP-MS microanalysis of iodine, bromine and chlorine in fluid inclusions
Wed-48	7a	Kommescher, Sebastian; Fonseca, Raúl O. C.; Thiemens, Maxwell M.; Münker, Carsten; Sprung, Peter	Kommescher, Sebastian	Ti investigations of the Earth and Moon
Wed-49	7a	Nordstad, Simon; Garbe-Schönberg, Dieter; Müller, Samuel; Wittke, Christina	Müller, Samuel	New micro-analytical reference materials
Wed-50	7a	Öz, Deniz; Tomaschek, Frank; Lagos, Markus; Werner, Ronald; Geisler, Thorsten	Öz, Deniz	Titanite U – Pb geochronology of the Evje-Iveland Pegmatite Field, Norway
Wed-51	7a	Funk, Claudia; Wombacher, Frank; Frick, Daniel A.; Meisel, Thomas; Heuser, Alexander; Kronz, Andreas; Günther, Detlef	Wombacher, Frank	A Chondrite Analogue Nanoparticle Calibration Material for LA-ICP-MS
Wed-52	8b	Eroglu, Sümeyya; Scholz, Florian; Siebert, Christopher; Salvatucci, Renato; Schneider, Ralph; Frank, Martin	Eroglu, Sümeyya	Reconstruction of paleo-redox conditions in particle rain vs. diffusion dominated settings in Pacific Oxygen Minimum Zones
Wed-53	8b	Zhuravleva, Anastasia; Bauch, Henning	Zhuravleva, Anastasia	Climatic links between the subarctic and subtropical North Atlantic during the last interglacial (MIS 5e)
Wed-54	8c	Perić, Zoran M.; Marković, Slobodan B.; Gavrilov, Milivoj B.; Ranković, Miloš; Baykal, Yunus; Schulte, Philipp; Hambach, Ulrich; Lehmkuhl, Frank	Perić, Zoran M.	Loess-paleosol sequences in north-eastern Serbia: a link between the Carpathian Basin and the Balkan paleoenvironment
Wed-55	9c	Alles, Jonas; Lehmann, Bernd; Liessmann, Wilfried; Schirmer, Thomas	Alles, Jonas	Distribution and composition of REE minerals in polymetallic vein systems of the Harz Mountains, Germany
Wed-56	9c	Schier, Katharina; Bau, Michael; Kuhn, Thomas; Schmidt, Katja	Bau, Michael	Ga-Al systematics of marine ferromanganese crusts and nodules reveal significant fractionation processes in aquatic environments
Wed-57	9c	Krolop, Patrick; Burisch, Mathias; Richter, Lisa; Fritzke, Björn; Seifert, Thomas	Burisch, Mathias	CO ₂ -fluxing, cooling and fluid mixing as ore-forming mechanisms in antimoniferous vein-type mineralization of the Berga Antiform, Eastern-Thuringia, Germany
Wed-58	9c	Franke, Henrike; Kallmeier, Enrico; Legler, Claus; Graupner, Torsten; Schwarz-Schampera, Ulrich; Pursche, Katja	Franke, Henrike	Petrogenetic investigations of sulfides from polymetallic skarn-type occurrences in the Ehrenfriedersdorf deposit, Germany: Coupled substitution processes of copper-indium in sphalerite
Wed-59	9c	Henning, Sören; Werner, Wolfgang; Graupner, Torsten	Henning, Sören	Germanium, gallium and indium concentration and distribution in sulfides of hydrothermal veins from the Black Forest ore district
Wed-60	9c	Henning, Sören; Birkenfeld, Sven; Franke, Henrike; Graupner, Torsten; Nawothnig, Bernd; Pursche, Katja	Henning, Sören	Influence of ore deposit type and regional geology on high tech trace element characteristics of Germany's base metal ore districts – A new database on critical metals
Wed-61	9c	Jeske, Tilman; Seifert, Thomas Poster cancelled!	Jeske, Tilman	Contributions to the mineralization of the Pöhla-Hämmerlein deposit, W-Erzgebirge, Germany: Late-stage Sn-polymetallic overprinting of the Hämmerlein skarn zone, W-Erzgebirge, Germany
Wed-62	9c	Miehlbradt, Martin; Seifert, Thomas; Jeske, Tilman; Burisch, Mathias; Hiller, Axel	Burisch, Mathias	Mineralogy, geochemistry and fluid inclusion analyses of schist-hosted cassiterite-quartz-tourmaline-fluorite-sulfide veins of the Sn-In-polymetallic Hämmerlein project, Erzgebirge (Germany)

List of posters

No.	Session	Authors	Presenter	Title
Wed-63	9c	Schaefer, Stefan; Seifert, Thomas; Barth, Andreas; Kallmeier, Enrico; Petermann, Tobias	Petermann, Tobias	Contribution to the mineralogy and geochemistry of polymetallic vein-type mineralization in the western part of the Freiberg district (Erzgebirge, Germany)
Wed-64	9c	Dittrich, Thomas; Seifert, Thomas; Schulz, Bernhard; Hagemann, Steffen; Gerdes, Axel; Pfänder, Jörg A.	Schulz, Bernhard	Lithium-Cesium-Tantalum pegmatites in Zimbabwe and Western Australia, and the formation of Neo-Archean massive (Cs)-pollucite mineralisation
Wed-65	9c	Eiche, Elisabeth; Slunitschek, Klemens; Patten, Clifford; Kolb, Jochen	Slunitschek, Klemens	What can we learn from mineral scalings in geothermal power plants?
Wed-66	9c	Tandon, Kai; Heuss-Aßbichler, Soraya	Tandon, Kai	Stability of the zinc sulphate hydroxides Gordaite, Bechererite and Namuwite: Phase relations and its applicability for recovery of metals from MSWI fly ashes
Wed-67	10b	Reich, Mike; Stegemann, Tanja R.; Hausmann, Imelda M.; Roden, Vanessa J.; Nützel, Alexander	Reich, Mike	A first Palaeozoic-type echinoderm group representative from the Mesozoic
Wed-68	10b	Samathi, Adun	Samathi, Adun	Biodiversity of non-maniraptoran theropod dinosaurs during the Mesozoic in Asia
Wed-69	10b	Schulz, Maria; Schneider, Jörg W.; Rößler, Ronny	Schulz, Maria	Permian laminites – a key for palaeoenvironmental reconstruction
Wed-70	10d	Abel, Pascal; Sachs, Sven; Young, Mark T.	Abel, Pascal	Thalattosuchian remains from the late Aalenian Eisensandstein Formation of Baden-Württemberg, southwestern Germany
Wed-71	10d	Kogan, Ilja; Wintrich, Tanja	Kogan, Ilja	Vertebral ossifications in fishes – key to the evolution of vertebral centra in amniotes?
Wed-72	10d	Sartorelli, Heitor; Sander, Paul Martin	Sartorelli, Heitor	A new Taphonomic Model for Brazilian Mesosaurs
Wed-73	10d	Wild, Anika; Wintrich, Tanja; Sander, Paul Martin	Wild, Anika	Pachystropeus rhaeticus: Osteological description of vertebrae from the Rhaetian of Bonenburg (Westphalia, Germany) and assignment to the Choristodera
Wed-74	10h	Kizner Zamudio, Anna Lena Heika; Schwermann, Achim; Bertling, Markus	Kizner, Zamudio Anna Lena Heika	Possible Crocodylian teeth from the lower Cretaceous of North Rhine Westfalia
Wed-75	10h	Lautenschlager, Stephan	Lautenschlager, Stephan	Morphological convergence and functional diversification of sabre-toothed vertebrates
Wed-76	10h	van Heteren, Anneke H.; Arlegi, Mikel; Santos, Elena; Arsuaga, Juan-Luis; Gómez-Olivencia, Asier	van Heteren, Anneke H.	Cranial and mandibular morphology of Middle Pleistocene cave bears (Ursus deningeri): implications for diet and evolution
Wed-77	10h	Harrison, George William	Harrison, George William	Dietary Variation between Adult and Juvenile Cave Bears
Wed-78	10i	Knaus, Philipp Ludwig; Gossmann, Rolf	Knaus, Philipp Ludwig	Exceptional preservation, preparation, and documentation: Pinus timleri seed cones from the Rhenish brown coal as an example of the scientific potential of a new collection at the Steinmann Institute
Wed-79	10i	Malekhosseini, Mahdih; Rust, Jest; Wappler, Torsten	Malekhosseini, Mahdih	An evolutionary pattern of plant-insect interactions on Persian ironwood, Parrotia persica, over the last three 3 million years (Pliocene and Pleistocene) in the Hyrcanian mixed forests, Iran
Wed-80	10i	Niebuhr, Birgit	Niebuhr, Birgit	From animal to plant kingdom: Siphonia bovista Geinitz, an alleged sponge from the Cretaceous of Saxony (Germany), in fact represents inner moulds of the cone-like plant fossil Dammarites albens Presl in Sternberg, 1838
Wed-81	11a	Fischer, Jan; Kogan, Ilja; Voigt, Sebastian; Buchwitz, Michael; Schneider, Jörg W.; Moisan, Philippe; Spindler, Frederik; Brosig, Andreas; Preusse, Marvin; Scholze, Frank; Linnemann, Ulf	Fischer, Jan	The Triassic inland lake basin of Madygen (Kyrgyzstan, Central Asia)
Wed-82	11a	Hartenfels, Sven; Becker, Ralph Thomas	Hartenfels, Sven	Borkeweher near Wocklum (northern Rhenish Massif, Germany), a possible future Devonian/Carboniferous boundary GSSP section
Wed-83	11a	Haug, Gideon; Haug, Carolin; Haug, Joachim	Haug, Carolin	How similar is similar – mayfly larval morphology appears 'old', but is it?



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The catering is served in the Aula, the hall for poster socials and exhibitors. The coffee breaks are included in the conference fee. Lunch is not included in the conference fee!

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- » Monday: 08:00 - 19:00
- » Tuesday: 08:00 - 18:00
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Universitäts-Hauptgebäude (main building)
 Rheinische Friedrich-Wilhelms-Universität Bonn
 Regina-Pacis-Weg 3, D-53113 Bonn



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From Central Station: Please walk appr. 50 m south-east in direction Maximilianstraße, turn left on Maximilianstraße and again left on Wesselstraße. After a few meters you arrive at Kurfürstliches Schloss, entrance Am Hof (Please note: this is the only open access to the building!)

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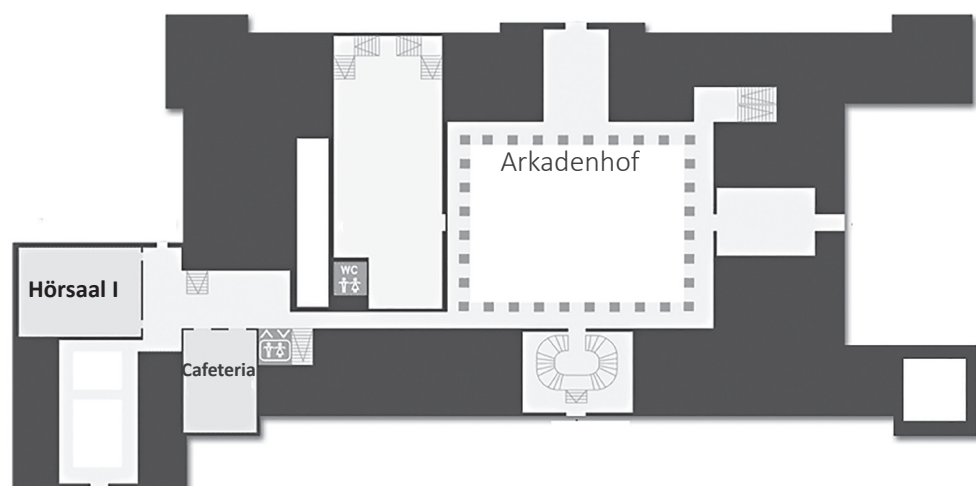
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Access to the posters, the exhibition and catering area (Aula) additional coffee station at Festsaal

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