



Final Circular (08/2022)

PANGEO AUSTRIA 2022

Beyond Earth Science Frontiers

Conference Convenor

Department for Applied Geosciences and Geophysics
Montanuniversitaet Leoben
Peter-Tunner-Straße 5
8700 Leoben

Location and Date

Montanuniversitaet Leoben
Franz-Josef-Straße 18
8700 Leoben

Date: 10 - 13/09/2022

Conference Language(s)

English/German

General information

PANGEO AUSTRIA 2022, to be held in Leoben from 10th to 13th September 2022, will offer a broad technical program with >200 confirmed contributions in 20 regular sessions and 2 workshops.

Information about the conference venue, as well as travel and accommodation options can be found at the conference website:

<http://pangeo.unileoben.ac.at>

For further assistance, please contact:

pangeo@unileoben.ac.at

Covid regulations

Following the current Covid regulations of Montanuniversitaet Leoben for public events, supervised Covid self-tests will be taken at the entrance to the venue on Sunday 11/09/2022 and Tuesday 13/09/2022.

According to the current Covid status “green”, no FFP2 masks are required at the venue and in the lecture rooms. However, mandatory mask wearing may be decided in the case of a change in Covid status. Please follow the updates at the conference website and via e-mail.

All participants of the pre-conference program on Saturday are advised to take a voluntary Covid self-test to ensure maximum safety for all attendees. Please follow the usual Covid rules (e.g., avoid grouping in enclosed spaces) throughout the event.

Please understand that these requirements are general access rules of Montanuniversitaet Leoben for employees, students, and guests. The mandatory tests may be cancelled in case of changing regulations.

Conference program & information for presenters

As a session chair or speaker, please make sure to be on site in time. Presentations must be uploaded before the session start. No delays will be accepted.

Presentations must be prepared in MS Powerpoint 16:9 with no specific format requirements. Please provide your presentation on a virus-checked USB disk. **Presentation slots are scheduled for 20 mins** (15 min presentation + 5 min discussion). Please strictly adhere to the time limit.

Posters should be prepared in A0 size with no specific format requirements. Please make sure that your poster is up in time for the poster session. Preferably posters should be up for the whole conference duration. Information on poster award and poster session presentations will be communicated at the conference office upon registration.

IMPORTANT: Presentations and posters must not contain apparent advertising content.

Please find the final session program at the end of this document and online at:

<https://pangeo.unileoben.ac.at/conference-program>

Please follow program updates via the website.

Field trip and framework program

Icebreaker party

The icebreaker party will take place at the main venue on Saturday 10/09/2022 starting from 07:00pm. You may also pre-register for the conference there.

Field trips

Participation fees for the excursions are posted at the conference website and must be paid at the conference office (main entrance to the venue). You will receive a ticket which will be checked at the bus entrance. Final information about meeting points, etc. will also be communicated at the conference office upon check-in.

Please make sure to be on site in time and bring your ticket (handed out upon payment at the conference office). Also, please bring weather-proof clothing and shoes, and be prepared to spend a day in the field. The participation fee includes a lunch package for the day of the excursion.

Meeting point for the pre-conference excursions on Saturday 10/09/2022 will be the entrance to the main venue (new building of the MUL main campus). The departure time for both excursions will be 09:00am sharp. Please be there at least 15 minutes prior to departure with your registration tickets ready.

Excursion 1: Sat 10/09/2022 (09:00) [Erzberg](#)

(F. Melcher, R. Galler)

Iron ore has been mined at the “Steirischer Erzberg” for more than 1300 years. Today, VA Erzberg produces about 3 million tonnes of siderite concentrate annually. The metallogenetic evolution of this giant ore system continues to be a matter of debate. During the excursion, we will visit key outcrops in the active mine area to discuss the evolution of the mineralization in the framework of the regional geology of the Erzberg.

Excursion 2: Sat 10/09/2022 (09:00) [Aflenzer Bürgeralm Panorama Road - A spectacular section through the rocks of the Triassic at the southern rim of the Mürzalpen nappe](#)

(G. Bryda)

The one-day excursion will start in the stratigraphically youngest parts of the Noric nappe, leading along the panorama road to the Aflenzer Bürgeralm and afterwards to the Schönleitenhaus. Following an introduction to the regional geology and tectonics of the area, the rocks at the southern edge of the juvavic Mürzalpen nappe, which are best exposed along the Panoramastraße, will be presented. The focus will be set on the facies and stratigraphic position of these rocks, as well as the temporal-spatial development of their depositional environment in the forefront of the Triassic carbonate platforms.

Excursion 3: Tue 13/09/2022 (13:00) *Styromag Magnesite (Oberdorf)*

(P. Kroissenbrunner, H. Mali)

The Upper Austroalpine nappe system of Austria hosts several magnesite deposits of the Veitsch type of which seven deposits are still in mining operation. Metasomatic deposits of the Veitsch type are hosted by Palaeozoic carbonates, form coarsely crystalline stratiform lenses, layers, and irregular bodies. All of them are overprinted by Alpine metamorphism. Pinolitic magnesite structure, several generations of dolomite and secondary talc formation are some characteristics of these deposits. The excursion will visit one of the deposits mined by Styromag GmbH at Oberdorf, Wald or Hohentauern which are hosted by the Carboniferous Veitsch nappe of the Austroalpine Veitsch-Silbersberg nappe system.

Excursion 4: Wed 14/09/2022 (09:00) *Spodumene (Lithium) Project Wolfsberg*

(T. Unterweissacher, H. Mali)

European Lithium's Wolfsberg Project is targeting spodumene-bearing pegmatites within the Koralpe-Wölz nappe system. The company successfully completed a positive pre-feasibility study (PFS) in Q2 2018. The PFS was based only on current measured and indicated resources of 6.3 Mt at 1.17% Li₂O. Additional exploration work within the framework of a detailed feasibility study revealed the available resources more realistically. The excursion participants will have the possibility to visit the underground exploration adit as well as the core shed within the city of Wolfsberg.

Keynote and public lecture

Opening keynote

Mike Simmons (Halliburton, UK)

Who needs geoscientists? Career options in a time of energy transition

Historically, many geoscientists have been employed in searching for and extracting resources, either hydrocarbons, minerals, or water. Concerns about the environmental sustainability of geological vocations appear to be reducing the number of students studying geoscience, at least in many developed western nations. What then are the options for those wishing to pursue a career in geology? The need for geoscientists is paramount in a time of energy transition, be that in traditional spheres of employment or in what may be termed "sustainable geoscience," although these are not mutually exclusive.

Growing global population and economic growth are likely to drive an ongoing rise in energy demand as the century progresses. Despite the growth in renewables, the energy mix for the next few decades is likely to continue to include a significant contribution from natural gas, oil, and, to a lesser extent, coal. The challenge is to be as efficient as possible in the exploration for these resources and to locate those with the lowest carbon footprint created by their exploitation ("green oil"). This means a focus on reservoir geology so that well placements and trajectories are optimized.

These skills will also allow geoscientists to contribute to solutions that may help achieve carbon neutrality targets. Carbon capture and sequestration (CCS) is likely to grow in importance and requires geoscientists who can model subsurface repositories and the behaviour of fluids injected

into those repositories. Other avenues exist in engineering geology in relation to the challenges of installing new wind farms and for the construction of measures to mitigate the impacts of climate change that are already inevitable. A growing number of geologists are engaged in investigating the potential of geothermal energy.

The global improvement of living standards and society's ongoing appetite for technology places a demand on the supply of raw materials (e.g., copper and rare earth elements) that could quickly outpace our known reserves. Geoscientists are needed to locate new deposits, including those in the oceans. As the global population continues to expand towards 11 billion people, water supply is likely to be one of the major challenges society faces as the century progresses. Hydrogeologists are needed to locate and manage aquifers as climate evolves and to protect them from pollutants.

Academic geologists can provide support to all of these industrial activities, but there is also much fundamental research to be carried out. It is now over 50 years since the advent of the last major paradigm shift in geoscience – plate tectonics – another is surely overdue. We still have much to learn about processes operating in and on Earth today and in the past, and the evolution of life. Holistic Earth systems science approaches can be useful, for example, by using the past to model climate evolution. One exciting avenue is the impact of the digital revolution on geoscience. Data science is providing new scientific insights and is transforming all resource industries, contributing to efficiency and associated environmental benefits. The future geoscientist needs to be technology and data science literate, but with an underpinning of sound geoscience knowledge. We do not know where this exciting phase of technology and data science change will take geoscience, but it is clear that geoscientists will be needed to support society as it enters a period of unprecedented change.

Public Monday evening lecture

Kurt Stüwe (Universität Graz)

Zur Geschichte der Steirischen Landschaft

Die Landschaft der Steiermark mit ihren Bergen, Tälern und Ebenen formte sich zwar über geologische Zeiträume, aber dennoch gab es erstaunlich große Veränderungen auch innerhalb der relativ kurzen Entwicklungszeit der Hominiden in den letzten fünf Millionen Jahren. Die ursprünglich über den Semmering ins Wiener Becken fließende Mur änderte ihren Verlauf allmählich nach Graz, die Enns floss noch über den Schoberpass in die Mur, viele der steirischen Vulkane existierten noch nicht und der Schöckl oder der Hochschwab waren noch keine Berge, sondern erhoben sich kaum merklich über das flach-wellige Hügelland. Der Vortrag illustriert Aspekte dieser verblüffenden Landschaftsentwicklung mittels spektakulärer Luftaufnahmen.

Patronage

Austrian Geological Society (ÖGG)

<https://geologie.or.at>



Austrian Geophysical Society (AGS)

<https://geophysik.at/>



Austrian Mineralogical Society (ÖMG)

<https://oemg.org/>



Austrian Paleontological Society (ÖPG)

<https://fossils-of-austria.at>



Austrian Hydrogeological Society (ÖVH)

<https://oevh.org>



Pangeo.unileoben.ac.at
pangeo@unileoben.ac.at

Sunday 11.09.2022

08:00-10:00		Registration & Coffee	
HS Raiffeisen		SR D	
Opening, Awards & Keynote		Geology@School	
10:00	Opening & Awards	10:00	Welcome & Introduction: Hubmann, B.
11:15	Keynote: Who needs geoscientists? Career options in a time of energy transition (M. Simmons)	10:20	Fritz, I.: Erdwissenschaftliche Angebote für Schulen im Schuljahr 2022/2023
		10:40	Hilberg, S.: Digitale Lernspiele als interaktiver Einstieg in den Geologie - Unterricht
		11:00	Schreilechner, M.: 99% der Erde sind heißer als 1000°C – Nutzen wir diese Energie
		11:20	Kulturgeologische Exkursion durch Leoben
12:00-13:00		Lunch Break	
HS Raiffeisen		SR D	HS Miller v. H.
Landesgeologie		Geology@School	SR F
			Sedimentology
			Adv. Char. of Geomaterials
13:00 (Geol.@School 13:20)	Konrad, H. & Schmölzer, K.: Der Felssturz von Pürgg – vom Ereignis bis zur Sicherung	Melcher, A. & Unterweger, U.: Steinreiche Steiermark – Erdgeschichte begreifbar machen	Wohlschlägl, R.; Heron, D. L.; Kettler, C.: From ice streams to meltwater channels: Detailed study of a vast ancient ice sheet of the LPIA in the Ennedi Plateau, Chad
			Gopon, P.; Douglas, J.; Jenkins, B.; Bertrandsson Erlandsson, V. B.; Xie, Z.; Felfer, P.: Hidden in plain sight: using Atom Probe Tomography to understand the formation of invisible gold deposits in North American, China, and Europe
13:20	Mair, V.: Wissen um zu schützen – die Bedeutung einer detaillierten geologischen Karte für Gefahrenzonenplanung und Risikomanagement im alpinen Raum	Leitner, S.: Fachfremder Unterricht in der Induktionsphase: Eine Herausforderung für den Eintritt in den Lehrberuf?	Harzhauser, M.; Borzi, A.; Piller, W., E.; Strauss, P.; Siedl, W.; Dellmour, R.: Rise and demise of the Paleo-Danube Delta during the late Miocene (Vienna Basin, Austria)
			Niederl, S.; Felfer, P.; Bertrandsson Erlandsson, V.; Mottram, C.; Raith, J., G.; Gopon, P.: Invisible metals for a green future: Au associated critical elements in historic mining districts Murtal (Styria)
13:40	Fritz, I.; Habacher, M.; Mauritsch, H.; Paar, S.: Pharos, ein Einstiegsportal in das Datenarchiv des Geologisch-Mineralogischen Landesdienstes Steiermark	Melcher, F.: Blutdiamanten und Blutcoltan – der Handel mit Konfliktrohstoffen	Jamaluddin; Wagreich M.; Xinxuan X.; Umar, E. P.: Organic geochemical characterization of Miocene shale in the Lower Kutai Basin, East Kalimantan, Indonesia
			Misch D.; Vranjes-Wessely, S.; Kiener D.: Nanoindentation: A new workflow for spatially-resolved micromechanical investigations on sedimentary organic matter

	HS Raiffeisen Landesgeologie	SR D Geology@ School	HS Miller v. H. IGCP 710	SR F Adv. Char. of Geomaterials
14:00	Eder, T.: Erdwärmennutzung am Beispiel von Erdwärmesonden in der Steiermark	Misch, D.: Erdöl: Umwelt- gefahr oder wertvoller Rohstoff?	Krobicki, M.: Jurassic and Cretaceous phosphatic events and their palaeoceanogr- aphic significance during geotectonic evolution of the Pieniny Klippen Basin (Carpathians)	Shi, X.; Misch, D.; Zak, S.; Cordill, M.; Kiener, D.: Nanoindentation mapping for determining representative mechanical parameters of clay matrix in mudstones: A new tool for top seal characterization
14:20- 15:00	Coffee Break + Poster			
			Archeology	
15:00	Tanner, D.: Data Mining – Rohstoffe der Zukunft!	Hubmann, B.: Die Klientel der BIUK-Stud- ierenden: einige Quer- schnitts- betracht- ungen	Harzhauser, M.; Weber, G.; Lukeneder, A.; Mitteroecker, P.; Wurm, L.; Hollaus, L. M.; Haack, F.; Antl- Weiser, W.; Kern, A.: The oolite of the Venus from Willendorf – microstructure and provenance	Bakker, R. J.: Fluid immiscibility at metamorphic conditions: experimental evidence of fluid inclusions
15:20	Schröttner, M.: Vom Altbergbau zur Altlast, Blei- Zinkvererzung Schrems bei Frohnleiten	Discussion	Sterba J. H.: Combining NAA and best relative fit factors for Provenancing	Bensing, J. P.; Misch, D.; Skerbisch, L.; Hujer, W.; Sachsenhofer, R. F.: What's old is new again: can old, unpreserved core be used for modern seal rock characterisation?
	Integrated Stratigraphy			
15:40	Ajuaba, S.; Sachsenhofer, R. F.; Bechtel, A.; Galasso, F.; Gross, D.; Misch, D.; Schneebe- li-Hermann, E.: Controls on biomarker and carbon isotope patterns during the Toarcian anoxic event (Dormettingen section; Swabian Alb)		Oettel, L.; Eß, L. M.; Tropper, P.; Trebsche, P.: Mineral- chemische Provenienzunter- suchungen an Fahlerzen am prähistorischen Verhüttungsareal Kundl (Unterinntal, Tirol)	Skerbisch, L.; Misch D.; Drews, M.; Stollhofen, H.; Sachsenhofer, R. F.; Arnberger, K.; Schuller, V.; Zamolyi, A.: Regional mudstone compaction trends in the Vienna Basin: Implications for potential geological storage leakage
17:00	Historical Walk			

Monday 12.09.2022

08:00-09:00 Registration				
	HS Raiffeisen	SR D	HS Miller v. H.	SR F
	Integrated Stratigraphy	Economic Geology	Geophysics	Adv. Char. of Geomaterials
08:20	Piller, W.E.: News from the International Commission on Stratigraphy	Melcher, F.: Alpine metallogensis - reloaded	Banasiak, N. & Bleibinhaus, F.: High resolution seismic surveying of the Cheb Basin	Hassler, J.; Groß, D.; Guedes de la Cruz, G.; Piribauer, C.; Schubert, C.: Analysis of alteration effects of lignite-containing soil samples
				Applied Mineralogy
08:40	Hörfarter, C.: Stratigraphy in Web 3.0 - Advantages of a Controlled Vocabulary for Stratigraphic Units	Altenberger, F.; Wintzer, N. E.; Krause, J.; Iglseder, C.; Raith, J. G.: The Mallnock tungsten mineralization – Trace element evolution and geochronology (Gurktal Alps, Carinthia/Austria)	Eichkitz, C. G.; Schreilechner, M. G.; Heine, E.; Hauer, C.; Golja, M.: Anwendung von hochauflösenden Sub-Bottom Profiling Daten zur Darstellung seichtliegender Sedimente in Flüssen und Staubecken	Baldermann A.; Han S.; Abbott, A. N.; Farkaš J.; Rafiei M.; Löhr S. C.: A novel quantitative approach to sedimentary petrography: Next-generation SEM-EDS-based automated mineral mapping
09:00	Iglseder, C. & Reiser, M.: Lithostratigraphy and lithodemy in metasedimentary rocks of the Austroalpine - New insights from the Stangalm-Brenner Mesozoics (Öztal-Bundschuh Nappe System / Austria)	Weilbold, J.; Altenberger, F.; Raith, J. G.; Auer, C.; Knoll, T.; Paulick, H.; Schedl, A.; Aupers, K.; Schmidt, S.; Krause, J.; Berndt, J.; Neinavaie, H.: A new tool for tungsten exploration – Application of scheelite fingerprinting to assess tungsten mineralization in the Eastern Alps, Austria	Greenwood, A.; Hetényi, G.; Pasiecznik, D.; Baron, L.; Banasiak, N.; Bleibinhaus, F.; Scholger, R.; Caspari, E.; The MicrO-SEIZE field team; DIVE PIs; 2022 MSc IGFW-Field course: Applied geophysics in Phase 1 of the Drilling the Ivrea-Verbano zone (DIVE) project	Eichinger, S.; Boch, R.; Leis, A.; Dietzel, M.: Formation processes and prevention strategies of scale deposits in tunnel drainage systems
09:20	Huet, B.; Iglseder, C.; Schuster, R.: A lithostratigraphic model for the Western	Dollinger, S.; Melcher, F.; Marousek, L.; Elmer, S.; Nußbacher, H.: Sekundärminerale	Pasiecznik, D.; Greenwood, A.; Bleibinhaus, F.; Hetényi, G.: A high-resolution	Sammer, T.; Ravi, K.; Raith, J.: A fundamentals mineralogical investigation of

	Greywacke Zone and the Innsbruck Quarzphyllite Zone (Eastern Alps, Tirol, Salzburg, Austria)	in Pb-Zn-Lagerstätten und Ermittlung der Elementgehalte am Beispiel der Halden in Bleiberg, Kärnten	seismic survey across the Balmuccia Peridotite, Ivrea Zone, Italy – Project DIVE	downhole cements within the context of underground hydrogen storage
09:40	Piller, W., E.; Friebe, J., G.; Gross, M.; Harzhauser, M.; van Husen, D.; Koukal, V.; Krenmayr, H., G.; Krois, P.; Nebelsick, J., H.; Ortner, H.; Reitner, J., M.; Roetzel, R.; Rögl, F.; Rupp, C.; Stingl, V.; Wagner, L.; Wagreich M.: Cenozoic Lithostratigraphic Units of Austria (sedimentary successions)	Bertrandsson Erlandsson, V.; Gopon, P.; Foltyn, K.; Šoster, A.; Ellmies, R.; Melcher, F.: More than meets the eye: investigating critical elements in sulfides from different ore deposit types	Zhou, Z.; Caspari, E.; Barbosa, N. D.; Greenwood, A.; Holliger, K.: Fracture compliance estimation in crystalline rock masses from fullwaveform sonic data	Wedenig M.; Baldermann A.; Eder S.; Dietzel M.: The CaO-MgO-CO₂-H₂O-organo system revisited: New insights from thermodynamic modelling of mineral phase transformations
10:00-10:20	Coffee Break + Poster			
	Integrated Stratigraphy	Economic Geology	Geophysics	Reservoir Engineering
10:20	Harzhauser, M.; Kranner, M.; Piller, W., E.; Strauss, P.; Siedl, W.: Integrated stratigraphy of the Vienna Basin – data, concepts, paradigms	Hutter, F. & Raith, J. G.: Tungsten Mineralisation and Intrusive Rocks at Lienzer Schlossberg, East Tyrol	Trabi, B. & Bleibinhaus, F.: Blast Vibration Prediction	Burmester, G.; Zekiri, F.; Jurcic, H.; Jones, A.; Arnold, P.; Ott, H.: A novel upscaling workflow of multi-phase flow properties for water-, and mixed-wet reservoirs – applications for conventional hydrocarbon field developments and low-carbon business
10:40	Gebhardt, H.; Schenk, B.; Enge, A.; Ćorić, S.; Ranftl, E.; Heinz, P.: The Lower - Middle Miocene transition (Karpatian – Badenian) in the Krems Embayment (Central Paratet)	Gartner, V.; Melcher, F.; Bertrandsson Erlandsson, V.: Spurenelemente in Zinkblenden aus der Blei-Zink-Lagerstätte Raibl	Bleibinhaus, F. & Trabi, B.: Source Time Functions and Interference from Blast Arrays	Gruber, W.: Rock typing for reservoir prediction – a frequently misunderstood concept
11:00	Moser, M. & Wagreich, M.: The stratotype of the	Mali, H.; Bertrandsson Erlandsson, V.; Onuk,	Behm, M.; Cheng, F.; Kusnirak, D.:	Wan, C.; Song, Y.; Zhang, C.; Jiang, Z.: A study on

	Gutenstein Formation	P.: Spodumene Pegmatite Resource Potential of Austria	MASW imaging from shallow seismic reflection data	the prediction of critical water saturation of shale when it has sealing capacity
Regional Geology				
11:20	Fritz, H.; Nievoll, J.; Gallhofer, D.; Hauzenberger, C.; Gritsch, B.; Pfatschbacher, M.; Krenn, K.; Karner-Rühl, K.; Haas, I.; Eichinger, S.: The Eastern Greywacke Zone – a 400 Ma Story from Gondwana Decay to Alpine Assembly	Rabeder, J.; Peresson, M.; Reitner, H.: Tonrohstofforschung an der Geologischen Bundesanstalt	Akhverdiev, A.: Geostatistical approaches of sandy reservoir facies predictions based on analysis of elastic inversion results	Bauer, H.; Wolfmayr, M.; Decker, K.: Phi_K Hauptdolomit: tiefenabhängige Porositäts- und Permeabilitätswerte eines bedeutenden Reservoirs für Kohlenwasserstoff- und geothermische Energiegewinnung
11:40	Iglseder, C.; Rantitsch, G.; Stumpf, S.; Skrzypek, E.; Schuster, R.; Huet, B.: An adapted tectonic model for the “Central and Eastern Greywacke Zone” – new geochronological and RSCM-data (Styria / Austria)	Dietrich, V. & Melcher F.: Towards an analytical proof of origin for natural graphite	Schnepf, E.; Engbers, Y. A.; Arneitz, P.; Egli, R.; Scholger, R.; Ganerød, M.; Leonhardt, R.; Biggin, A. J.: A Miocene polarity transition recorded in a volcanic section on St. Helena, South Atlantic	Krishna, S.; Thonhauser, G.; Irfan, S. A.; Keshavarz, S.: A Robust Technique to Predict Formation Fracture Pressure of North Sea-Volve Oil Field Using Petrophysical Log Data
12:00-13:00 Lunch Break				
Regional Geology		Structural Geology	Geophysics	MRI_SEDEX OT Workshop
13:00	Fernandez, O.; Ortner, H.; Sanders, D.; Grasmann, B.; Leitner, T.: A new proposal for the Middle-Late Triassic paleogeography and tectonic evolution of the central Northern Calcareous Alps (Austria)	Schuller, V.; Zamolyi, A.; Dunkl, I.; Schleder, Z.: Tectonic History of Hoop Fault Complex – Implications on Fault Transmissibility, Barents Sea/Norway	Schnepf, E.; Arneitz, P.; Ganerød, M.; Scholger, R.; Egli, R.; Fritz, I.; Leonhardt, R.: Intermediate Field Directions Recorded in Pliocene Basalts in Styria (Austria): Evidence for cryptochron C2r.2r-1	Weber, L.: Die SEDEX Lagerstätten des Grazer Paläozoikums
13:20	Dax, F.; Sachsenhofer, R.F.; Tari, G.: The central Styrian Basin (Gnas	Ortner, H.; Sinah, K.; Gruber, A.: Minibasins upside down – Salt	Schlögel, I.; Hinterleitner, A.; Honic, M.: Materialbestim	Hubmann, B.: Stratigraphie des Grazer Paläozoikums

	Subbasin): Structure and stratigraphy revealed by seismic and borehole data	tectonics in the Karwendel mountains, Northern Calcareous Alps of western Austria	mung von Gebäudeteilen mittels Ground Penetrating Radar	und insbesondere der sulfiderz-führenden Schönberg Formation
13:40	Schreilechner, M., G.; Wagner, T.; Dax, F.; Binder, H.; Brandstätter, J.; Winkler, G.; Ferstl, M.: Aktueller Wissensstand zum Aufbau des Weststeirischen Beckens	Hintersberger, E. & HIKE Team: The HIKE European Fault Data Base: The interplay of structured data with Linked Data		Melcher, F.: Spurenelemente in den Sulfiderz-lagerstätten des Grazer Paläozoikums
14:00	von Hagke, C. & Frings, K.: Uplift and exhumation of the Alpine foreland	Levi, N.; Weissl, M.; Decker, K.: Geodynamic remarks in the deep borehole TH1 (Vienna Basin)		
14:20-15:00	Coffee Break+ Poster			
	Regional Geology	Paleontology	Geo-Energy	MRI_SEDEX OT Workshop
15:00	Hörfarter, C. & Haider, V.: Digital Dissemination of Geological Information – Recent Insights into the Geoinformation Bubble	Kranner, M.; Harzhauser, M.; Mandic, O.; Piller, W. E.; Strauss, P.; Siedl, W.: Paleoenvironmental evolution of the Vienna Basin during the Miocene	Nachtmann, W.: Fossil Fuels - Or: There`s Life in the Old Dogs Yet, Isn`t It?	Large, D.: SEDEX Deposits: Nomenclature, Global Distribution, Characteristics, 50 years of Genetic Concepts
	Earth Surface Dynamics			
15:20	Robl, J.; Stüwe, K.; Dremel, F.; Wetzlinger, K.; Liebl, M.; von Hagke, C.; Fabel, D.: Landscape Rejuvenation in the Bohemian Massif	Feichtinger, I.; Guinot, G.; Pollerspöck, J.; Auer, G.; Coric, S.; Kranner, M.; Harzhauser, M.: Shark diversity at the K/Pg boundary in Austria – A tale of extinction and hidden survival	Tari, G.: Geo-energy exploration along the Austrian-Hungarian border in the western Pannonian Basin	Paulick, H.: Hydrothermale Alteration und Proximitäts-indikatoren zum Erz bei Sulfiderz-lagerstätten
	Petrology			
15:40	Haas, I.; Kurz, W.; Gallhofer, D.; Hauzenberger, C.; Skrzypek, E.: The Austroalpine Schladming Nappe – a key area revealing the pre-Alpine evolution of the Eastern Alps	Lukeneder, A. & Lukeneder P.: Polzberg – Trias Konservat-Lagerstätte von Weltruf	Aghayeva, V.; Sachsenhofer, R. F.; van Baak, C., G., C.; Bazylamova, S.; Coric, S.; Vincent, S. J.: Chemo-stratigraphy of the Cenozoic succession in Azerbaijan:	

			Implications for petroleum systems in the Caspian Basin
16:00	Wagner, S.; Faßmer, K.; Tropper, P.; Hauzenberger, C.; Zerobin, B.; Goldenberg, G.; Gilg, H., A.: New P-T-t constraints on the metamorphic evolution of the garnet-chlorite schists from the Roßrugg (Zillertal core, Tauern Window, Tyrol): home of the Zillertal jewellery garnets	Lukeneder, P.; Lukeneder, A.; Fuchs, D.: Taphonomy of the total belemnoid fauna from the Polzberg Konservat-Lagerstätte (Upper Triassic, Northern Calcareous Alps, Austria)	Misch, D.; Zhang, P.; Liu, S.; Vranjes-Wessely, S.: Shale oil enrichment: Insights from combined organic geochemical, petrophysical and petrographical observations
16:20	Huet, B.; Schneider, D. A.; Rantitsch, G.; Frank, W.: Coupling in situ U-Th-Pb REE-epidote geochronology and thermodynamic forward modelling of main and REE-bearing phases: An example from the Tauern Window	Weinmann, A. E.; Koukousioura, O.; Triantaphyllou, M. V., Langer, M. R.: Cenozoic mass occurrences of Larger Benthic Foraminifera in the Mediterranean region: What can we learn from the current range expansion of Amphistegina lobifera?	Yan, Y., Misch, D.; Wang, M.; Shi, X.; Skerbisch, L.; Sachsenhofer, R. F.: Artificial maturation experiments on Qingshankou Formation shale: Porosity changes and implications for hydrocarbon expulsion behavior
16:40	Tropper, P.; Strasser, M.; Hasler, T.: High-grade fluid/rock interactions in metapelites: theoretical and observed phase relations and the behavior of accessory phosphate phases in the Kottavattam charnockites (S-India)	Wagensommer, A.; Tomelleri, I.; Baumgarten, B.; Kustatscher, E.: Die Fossiliensammlung des Bozner Privatgelehrten Georg Gasser (1857-1931): Ziele und Aufbau einer historischen Sammlung	
17:00-17:45	Poster Session		
18:00-19:00	Public Lecture: Zur Geschichte der Steirischen Landschaft (K. Stüwe)		
19:15-22:00	Conference Dinner		

Tuesday 13.09.2022

08:00-09:00 Registration				
	HS Raiffeisen	SR D	HS Miller v. H.	SR F
	Petrology	Engineering Geology	Geo-Energy	Seismology
08:20	Rogowitz, A.; Schorn, S.; Huet, B.: Interaction of metamorphic and deformation processes in the Hohl eclogite body (Koralpe, Eastern Alps, Austria)	Tropper, P.; Krenn, K.; Weidinger, J.; Sanders, D.: Evidence for decreasing impact-evoked pressure (UHP) conditions during frictional fusion along different shear planes in the Tsergo Ri (Langtang Himal, Nepal) rockslide	Misch, D.; Skerbisch, L.; Drews, M.; Körmös, S.; Liu, B.; Siedl, W.; Vranjes-Wessely, S.; Sachsenhofer, R. F.: New approaches to predict top seal integrity of geological reservoirs: Case study examples from the Vienna Basin	Bokelmann, G.; Meier, T.; Kolínský, P.; Lenhardt, W.; Jia, Y.: The AdriaArray project
08:40	Skrzypek E.; Gallhofer D.; Hauzenberger C.; Haas I.: U-Th-Pb geochronology and initial Pb composition of magmatic allanite by LA-MC-ICP-MS	Plinninger, R.; Frühwirt, T.; Mutschler, T.: Empfehlungen und Empfehlungsarbeit des AK 3.3 „Versuchstechnik Fels“ der Deutschen Gesellschaft für Geotechnik e.V.	Bensing, J. P.; Misch, D.; Skerbisch, L.; Sachsenhofer, R. F.: Calcite dissolution in claystones treated with brine and hydrogen: implications for underground hydrogen storage caprock integrity	Dangwal, D.; Behm, M.; Chen, X.; Soreghan, G.: Passive seismic imaging of bedrock depth and sediment fill of an alpine valley in the Colorado Plateau (US)
Hydrogeology				
09:00	Soto Bravo, F. & Zhang, C.: Investigating pore coupling effects in near-surface environments using nuclear magnetic resonance	Plinninger, R. & Alber, M.: Praxisorientierte Untersuchung und Klassifizierung anisotroper Festigkeitseigenschaften von Festgesteinen	Schreilechner, M. G.; Eichkitz, C. G.; Binder, H.; Hasni, M.; Neuhold, C.; Jara, C.; Jud, M.; Schön, J.; Wessely, G.; Lüschen, E.; Sperl, H.; Garden, M.; Keglovic, P.: Tiefe Geothermie Wien	Apoloner, M.-T.: Seismic Monitoring for Deep Geothermal Projects in Austria
09:20	Zhang, C.: The role of low-field nuclear magnetic resonance in critical zone research	Schmidbauer, J.; Wenighofer, R.; Schwager, P.; Amtmann, J.; Gegenhuber, N.: Forschungsprojekt GeoDrone:	Levi, N.; Diessl, J.; Bruno, M.; Nazari, F.; Roters, B.; Young, J.: Preliminary results of the InStRikE	Strasser, M.; Moernaut, J.; Daxer, C.; Oswald, P.; Fabbri, S.; Hammerl,

		Geotechnische und petrophysikalische Aspekte	project: risk-assessment of induced seismicity in geothermal fields	C.; Skapski, J.; Weginger, S.: Updates from Lake Paleo-seismology as contribution to improve seismic hazard assessment and awareness of secondary earthquake effects in Austria
09:40	Rinder T. & Hilberg S.: Forum Bergbau und Wasser – Hydrogeologische Begleitforschung zum Ende des Deutschen Steinkohlebergbaus – Hydrogeochemische Aspekte am Beispiel Anthrazitbergbau Ibbenbüren	Amtmann, J.; Schmidbauer, J.; Wenighofer, R.; Kink, D.; Gegenhuber, N.: Forschungsprojekt GeoDrone: AI Workflow	Cheng, F.; Xia, J.; Ajo-Franklin, J. B.; Behm, M.; Zhou, C.; Dai T.; Xi, C.; Pang, J.; Zhou, C.: Passive seismic methods for geothermal exploration: A case study from the Jinqu Basin (China)	
10:00-10:20	Coffee Break + Poster			
	Hydrogeology	Engineering Geology	Young Sediments	Seismology
10:20	Haas, J.; Birk, S.; Retter, A.; Griebler, C.: Ein integrativer Überblick über die Grundwasserqualität im Murtal: Von der Quelle bis zur Slowenischen Grenze	Schünemann, V. & Villeneuve, M.: Development of a demonstration project for the construction of a compressed air storage in existing disused mining galleries based on geonumerical modelling	Jawecki, C.; Weil, J.; Bauer, M.; Lappé, K.: 3D Ground Model of Vienna: from geological concept to geotechnical application	Akhverdiev, A.; Afanassenkov, A.; Lavrik, A.: Pore-pressure and geomechanical parameters prediction based on elastic inversion results
10:40	Kokimova, A.; Collenteur, R.; Birk, S.: Identification of recharge components and unknown stresses in alluvial aquifers using time series modelling	Maier T. & Villeneuve M.: Physical and Geomechanical Characterization of Volcanic Rocks from Styria	Schmalfluss, C.; Firla, G.; Lüthgens, C.; Neuhuber, S.; Fiebig, M.: Early results from the ICDP project DOVE (Drilling Overdeepened Alpine Valleys): Revisiting the Hole of Bad Aussee	Fuchs, F. et al.: Distributed acoustic sensing: opportunities, challenges, and data highlights from railway installations in Austria
11:00	Seelig, M.; Kainz, S.; Hausleber, M.; Obwegs, M.; Eybl, J.;		Miesebnner, L.; Müller, M.; Friedl, M.; Dietzel, M.;	

	Winkler, G.: Time Series and Trend Analysis of Austrian Springs	Hippler D.: The Weissensee – A natural carbonate mineral factory
11:20	Kainz, S.; Wagner, T.; Krainer, K.; Avian, M.; Olefs, M.; Haslinger, K.; Winkler, G.: A thermokarst-related debris flow event at an active rock glacier in the Ötztal Alps (Tyrol, Austria)	Wagreich, M.: Stratigraphy of the Anthropocene

12:00-12:45 **Poster Award & Closing**

POSTER SESSION PROGRAM

Advanced Structural and Geochemical Characterization of Geomaterials

Epov, A.; Chernonozhkin, S. M.; Puschenreiter, M.; Tognacchini, A.; Meisel, T. C.; Prohaska, T.; Irrgeher, J.;	Assessing analytical methods for high precision Ni isotopic analysis in rhizosphere samples from Ni hyperaccumulating plants
Hiller, J. M.; Gopon, P.; Bertrandsson Erlandsson, V.;	A green future from a contentious past: gold and critical metals in a historic arsenic mining district Strassegg (Styria)
Moser, U.; Čeplak, B.; Aldrian, A.; Hočevár, S.; Kralj, P.; Šala, M.; Vollprecht, D.; Žibret, G.; Irrgeher, J.	MURmap - Holistic geochemical tracking of elements and their sources in the Mur/Mura River Catchment
Müller, S.; Misch, D.; Skerbisch, L.; Shi, X.	Porosity – depth trends for Vienna Basin mudstones: Validation of broad ion beam – scanning electron microscopy as a seal prediction tool
Nasiri, A.; Ravi, K.; Prohaska, M.	Mono-energetic Micro-computed tomography(μCT): A reliable potential alternative to mineral investigation of formation rock
Neuschitzer, D.; Scheiblehner, D.; Sprung, A.; Wibner, S.; Gross, D.; Antrekowitsch, H.	Formation of intermediate decomposition products (PAHs) during methane pyrolysis in a liquid metal bubble column reactor

Applied Mineralogy

Baumann, C.; Galan, I.; Sakoparnig, M.; Dietzel, M.;	Growth of brucite on portlandite crystal surfaces
Rudic, O.; Hofrichter, M.; Steindl, F.; Wohlmuth, D.; Dietzel, M.; Mittermayr, F.;	Metallurgic slag-based geopolymer materials in the circular economy
Kojic, I.; Dojcinovic, B.; Stojanovic, K.;	Preliminary study of copper (II) ions removal from wastewater using solid residue obtained by co-pyrolysis of lignite and high-density polyethylene mixture
Lontschar, K.; Mittermayr, F.; Perez, G.; Dietzel, M.; Galan, I.	Vanadium leaching from thermochromic cement
Ratz, B.; Baldermann, A.; Stamm, F. M.;	Formation and environmental significance of short-range order allophanehisingerite solid solutions
Sammer, T.; Nasiri, A.; Feichter, M.; Ravi, K.;	Tackling challenges concerning the integrity of downhole cement/rock during underground gas storage: an interdisciplinary approach
Stamm, F. M.; Balderman, A.; Dietzel, M.;	Silicon isotope fractionation during the formation of amorphous (alumino)silicate phases
Zoegl, I.; Grengg, C.; Mueller, B.; Wedenig, M.; Kluge, T.; Boch, R.; Dietzel, M.	High-resolution spatiotemporal pH monitoring of coupled CO₂ degassing and CaCO₃ precipitation dynamics

Aspects of Seismology

Nasir, A.; Hintersberger, E.; Decker, K.	The temporal evolution of seismicity and variability of Gutenberg-Richter b-values along the Vienna Basin Transfer Fault System
--	--

Economic Geology

Baumann, C.; Raith, J. G.; Paulick, H.; Weilbold, J.; Auer, C.; Stranzl, C.; Dietzel, M.; Ebner, F.;	Magnesite deposits in the Eastern Alps – integrative approaches
Geringer, A.; Rohrhofer, S.; Melcher, F.; Reitner, H.; Benold, C.; Schuster, R.; Auer, C.; Paulick, H.; Grasemann, B.; Hubmann, B.; Large, D.;	SEDEX deposits in the Graz Paleozoic – investigations to the exploration potential with the Arzberg deposit as calibration region
Pittarello, L.; Fanesi, E.; Kolitsch, U.; Giuli, G.	The natural occurrence of native iron in basalt from Bühl near Weimar, Kassel, Germany: a new study based on historical samples

Schubert-Hlavac, G.; Mali, H.; Schuster, R.; Steiner, R.; Rohrhofer, S.; Zahrl, M. A.; Sweda, M.; Horvat, C.; Knoll, T.	Prospecting for spodumene pegmatites by statistical evaluation of trace elements in magmatic muscovite
Wallner, D.; Bertrandsson Erlandsson, V.; Raith, J. G.; Rantitsch, G.; Melcher, F.; Ellmies, R.	Mineralogical and Geochemical Characterization of the Dolostone Ore Formation, Kunene Region, Namibia
Werdenich, M.; Reitner, H.; Schuster, R.; Melcher, F.; Rantitsch, G.; Mali, H.;	Investigation of occurrences of high-quality quartz mineral resources in south-eastern Austria: First results from the Rittis quartzite
Geo-Energy	
Aghayeva, V.; Sachsenhofer, R. F.; van Baak, C., G., C.; Bazyramova, S.; Coric, S.; Vincent, S. J.:	Chemostratigraphy of the Cenozoic succession in Azerbaijan: Implications for petroleum systems in the Caspian Basin
Ajuaba, S.; Sachsenhofer, R. F.; Meier, V.; Gross, D.; Omodeo Sale, S.; Schnyder, J.	Hydrocarbon potential of Permo-Carboniferous rocks (Weiach, Switzerland)
Schreilechner M. G.; Eichkitz, C. G.; Binder, H.; Hasni, M.; Neuhold, C.; Schön, J.; Wessely, G.; Keglovic, P.; Eckerstorfer, H.; Kulich, J.; Götzl, G.; Leusbrock, I.; Tugores, C. R.; O'Donovan, K.; Falay, B.; Haslinger, E.; Auer, R.; Friedrich, R.; Heinemann, G.; Weissl, M.; Flores Orozco, A.; Decker, K.	Aquifer Thermal Energy Storage Vienna
	Mapping active faults in the region of Vienna to minimize seismic risks associated with geothermal energy production
Geophysics	
Akhverdiev, A.;	Prediction of reservoir properties in carbonate and clastic sediments on the South Ural Foreland based on the results of elastic inversion
Akhverdiev, A. & Aleynikov, I.;	Seismic data Quality Cintron based on analysis of Semblance and Envelope attribute
Eichkitz, C. G.; Schreilechner, M. G.; Arndt, D.; Madritsch, H.; Spillmann, T.; Merz, K.; Hölker, A.	Unterschiede in der Störungskartierung von potentiellen Endlagern aufgrund alternativer seismischer Processingvolumen
Jud, M.; Eichkitz, C. G.; Schreilechner, M. G.; Binder, H.	Festgesteinsseismik in Metamorphiten
Schattauer, I.; Hintersberger, E.; Ullrich, C.; Supper, R.; Motschka, K.	The usage of GIS edge-approximation tools on vintage aerogeophysical data with focus on fault interpretation
Schlögel, I.; Apoloner, M.-T.; Weginger, S.	Die „Geräusche der Erde“ rund um und im Traunsee – Projekt TiefenRausch
Scholger, R., Fritz, I., Nell, O.;	Geophysical prospection of the Pliocene volcanic massif Königsberg-Klöch in Southeast Styria (Austria)
Scholger R.; Sarc, R.; Lorber, K.; Reiselhuber, K.;	Goelectric monitoring of irrigation experiments at the Rautenweg landfill (Vienna)
Geoscience and Archeology	
Oettel, L.; Degenhart, G.; Tropper, P.;	Mikrocomputertomographische Untersuchungen an Blasen- und Plattenschlacken aus dem prähistorischen Verhüttungsplatz Kundl (Unterinntal, Tirol)
Scholger, R. & Cech, B.;	Geophysical prospection of the ancient gold mining region “Karth” in Lower Austria
Tropper, P.; Gammel, T.; Töchterle, U.	Subduction in a vessel: petrology of eclogite-tempered ceramics from the Kiechlberg (Thaur, Tyrol)

Tropper, P.; Krüger, H.; Hejny, C.; Wallner, J.

Mineralogische Untersuchungen (XRD und DTA-TG) zur Zusammensetzung und zum Brennverhalten ausgewählter Tonproben hinsichtlich archäologischer Fragestellungen zur lokalen Keramikproduktion

Wagner, S.; Degenhart, G.; Tropper, P.; Köchl, R.; Gilg, H. A.

Modern garnet quality control: Micro-XRF and micro-computer tomographic investigations on Zillertal garnet raw products and jewelry pieces.

Hydrogeology and Hydrochemistry

Arnhofer, M.; Winkler, G.; Hilberg, S.;

Hydrochemische Charakterisierung von Blockgletscherquellen mit karbonatgesteinsdominierten Einzugsgebiet (Beispiel Lantschfeld)

Fachathaler P.; Misch, D.; Zhang, C.; Behm, M.; Scholger, R.; Kusnirak D.; Malone, E.;

Hydrogeophysical survey in the St. Ilgener valley revealing subsurface structure and groundwater pathways

Theyer, M.; Prandstätter, L.; Kuschnig, G.; Decker, K.;

Porosity and permeability of fractured Triassic carbonates forming the main ground water reservoirs of the 1st Vienna Water Main in the Schneeberg Massif (Lower Austria)

Yousefi, N.; Rinder, T.; Hilberg S.;

The mine drainage from the spoil tip of a Bavarian pitch coal mine – a history of unmonitored natural attenuation

IGCP 710: Western Tethys meets Eastern Tethys

Koukal, V.; Wagreich, M.; Eder, L.;

Slope basin depositional model of the Paleogene Gosau Group of Gams on top of the incipient Eastern Alpine orogenic wedge (Austria)

Mrdak, M.; Gawlick, H.-J.; Djakovic, M.; Djerić, N.; Sudar, M.;

Drowning of the Ravni carbonate ramp and the overlying late Middle Anisian Bulog Formation in the Seljani area, Montenegro, Dinarides

Mrdak, M.; Wegerer, E.; Đerić, N.; Đaković, M.; Gawlick, H.-J.

Explosive volcanism as precursor of the Julian "Carnica" Event in northern Montenegro (Durmitor Mega-Unit)

Wagreich, M.; Pavlishina, P.; Dochev, D.; Koukal, V.;

Stratigraphy of the Turonian-Coniacian boundary interval in the Gosau Group of Gams, Styria

Igneous and Metamorphic Petrology

Bernabe, E. & Tropper, P.

Mineral chemical evolution of metapelites along the prograde Eoalpine metamorphic field gradient in the southern ÖC (Vinschgau, S-Tyrol, Italy)

Hollinetz, M. S.; Huet, B.; Schneider, D. A.; McFarlane, C. R. M.; Rantitsch, G.; Grasemann, B.

Thermodynamic modeling and in situ U-Th-Pb geochronology constrain polymetamorphism and a large Eo-Alpine metamorphic gap between the Koralmpe-Wölz and Drauzug-Gurktal nappe systems (Austroalpine Unit, Eastern Alps, Austria)

Karner-Rühl, K.; Hauzenberger, C. A.; Skrzypek, E.; Fritz, H.

Metamorphic evolution and geochronology of Variscan remnants in the Eastern Alps: the crystalline "Schollen" in the Greywacke Zone

Meier, V.; Breitkreuz, C.; Groß, D.; Ohser, J.

Perlitic textures in silica-rich rocks: Re-evaluation of volcanological and glass technical models

Santitharangkun, S.; Hauzenberger, C.; Skrzypek, E.; Gallhofer, D.

P-T-t Evolution of the Pongyong Gneiss, Inthanon Zone, NW-Thailand

Paleontology

Hofmann, C.-C.; Sachse, M.; Huet, B.

Pollen assemblages of subhumid and sclerophyllous plants and intrazonal water plants revealed by SEM pollen analysis of mid-Miocene deposits of Entrischenbrunn (Bavaria, Germany)

Regional Geology and Geodynamics

Haas, I.; Kurz, W.; Gallhofer, D.; Hauzenberger, C.; Skrzypek, E.; Fritz, H.	The Permo-Mesozoic cover sediments of the Seckau-Schladming nappe system and their provenance – a detrital zircon story
Heberer, B.; Salcher, B.; Dunkl, I.; Sachsenhofer, R.; Wagreich, M.; Wessely, G.	An Oligocene to Miocene cooling pulse in the easternmost Alps detected by thermochronology – a result of thrust tectonics and/or deep mantle processes?
Iglseder, C.; Bryda, G.; Ćorić, S.; Skrzypek, E.; Gallhofer, D.; Huet, B.	U/Pb zircon ages on tuff in the Aflenz basin (Styria/Austria) – Evidence for Middle Miocene widespread volcanic deposits
Linner, M.; Iglseder, C.; Wegner, W.;	Different ages of granitic blocks in the Waschberg-Ždánice Unit and Allochthonous Molasse as indication for Moldanubian and Moravian rocks in the Bohemian spur
Melcher, F.; Feichter, M.; Mali, H.; Grill, H.	Enigmatic corundum-rich rock from the central Tauern window: metabauxite in the Habach Group?
Oppenauer, L.; Flores-Orozco, A.; Weissl, M.; Decker, K.	Paleoseismology of the Seyring Fault in the Vienna Basin (Austria)
Ranftl, E.-M.; Roetzel, R.; Hintersberger, E.; Linner, M.	Evidence for a two-stage brittle tectonic evolution from fault analyses in the Horn Basin (SE Bohemian Massif)
Rantitsch, G.; Iglseder, C.; Schuster, R.; Huet, B.; Linner, M.; Bryda, G.; Reiser, M., Hollinetz, S. M.; Werdenich, M.	A thermometric database for the Eastern Alps based on Raman Spectroscopy on carbonaceous material (2002-2022)
Stumpf, S.; Skrzypek, E.; Iglseder, C.; Stüwe, K.	U/Pb zircon, U/Pb allanite dating and petrology of the Ennstal Phyllite Zone (Eastern Alps)
Werdenich, M.; Iglseder, C.; Linner, M.; Steinbichler, M.; Reiser, M.; Huet, B.	A model to access geochronological data for the Geological Survey of Austria

Sedimentology/Stratigraphy

Kettler, C.; Le Heron, D. P.; Vandyk, T. M.	Who is who in the glacial forefield: a macro fabric-based classification of glacial landforms
Le Heron, D.; Kettler, C.; Wawra, A.; Schöpfer, M.; Grasmann, B.	The sedimentological death mask of a dying glacier
Xiang, X.; Wei, Y.; Wang, A.; Cao, D.; Ning, S.	Coal forming environment of low-rank coal seam in Sandaoling mining area, Turpan-Hami Basin

Structural Geology in Academics and Industries

Bandic, I.; Bauer, H.; Decker, K.	Quantifying fracture intensity (P21 values) in drill cores of the Hauptdolomit Formation using digital image analysis (ImageJ)
Hinterwirth, S.; Pomella, H.; Burger, U.; Ortner, H.	3D-modelling of the Hochstegen Formation of the western Tauern Window at the Brenner Pass
Mohideen, A.; Grasmann, B.; Madritsch, H.; Decker, K.	Quantifying shear strain of a potential halite detachment below the Swiss Eastern Tabular Jura
Ortner, H.; Ganser, C.; Stipp, M.; Fernandez, O.	Deformation of a mountain-sized olistolith: Schwarzer Berg, Northern Calcareous Alps of Salzburg

Young Sediments

Eder, T. E.; Mieseberner, L.; Dietzel, M.; Hippler, D.	Recent to past record of lacustrine chalk deposition and diagenesis in Weissensee (Carinthia, Austria)
Ganser, C.; Schilcher, P.; Auer, G.; Dietzel, M.; Hippler, D.	Wulka catchment hydrogeochemistry and the formation of Ca-Mg carbonate minerals in Lake Neusiedl
Griesmeier, G. E. U. & Reitner, J. M.	Preliminary geological maps of Quaternary units in Austria 1:500.000 and 1:1.500.000

Hornek, K.; Lappé, K.; Wagreich, M.	Art and Geology - anthropogenic strata and latent soils of Vienna
Koukal, V. & Wagreich, M.	An Introduction to the UNESCO International Geosciences Program IGCP 732 LANGUAGE of the Anthropocene
Neuhuber, S.; Thöny, W.; Fiebig, M.;	Numerical ages of Paleo-Danube sediments at the Vienna Gate quantify Quaternary uplift
Neuhuber, S.; Salcher, B.; Otto, J.-C.; Payer, T.; Lüthgens, C.; Grupe, S.; Flores-Orozco, A.; Fiebig, M.	Sediment deposition, regional uplift and local normal faulting recorded in the Danube terrace staircase of Vienna