



Montanuniversität
Leoben



Venue: Erzherzog-Johann-Trakt, Franz-Josef-Straße 18,
8700 Leoben; entrance from Ignaz Buchmüllerplatz

[MinPet 2025 Website](https://minpet2025.unileoben.ac.at)
minpet@unileoben.ac.at



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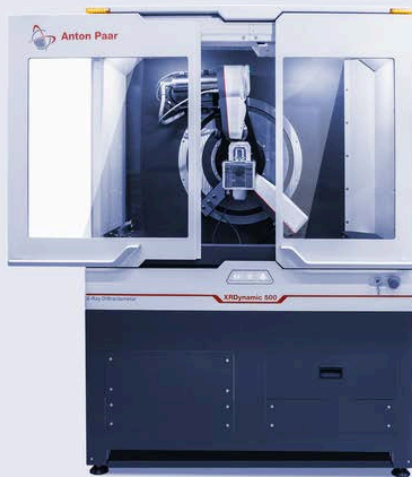
MinPet 2025

Mineralogy and Petrology

From Fundamental Research
to Applications in Industry

► 21.–23. September 2025
Montanuniversität Leoben

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WELCOME ADDRESS

Dear participants of MinPet 2025,

Welcome to the 19th biennial MinPet meeting at Montanuniversität Leoben, held under the patronage of the ÖMG.

This year's program spans eight sessions with 90 presentations, covering mineralogy and crystallography, mineral raw materials, methodological advances, applied mineralogy, and petrology including geochronology.

The increasing role of applied mineral sciences is reflected throughout the conference. Its growing significance is underscored by numerous contributions at the intersection of mineralogy, materials science, and environmental science. Progress in analytical techniques, a driving force for mineral sciences and related fields, are also highlighted. Several companies will showcase new instrumentation.

Two pre-conference field trips and a varied social program will complement the scientific sessions and provide opportunities for exchange and networking.

Thank you for joining us in Leoben—we wish you an inspiring and enjoyable MinPet 2025!

Johann Raith & Frank Melcher, Speakers of the Committee

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TIME SCHEDULE Overview

Saturday, 20.09.2025	Pre-conference Excursion A: <i>Arzberg Historic Pb-Zn mine</i> , full-day field trip
Sunday, 21.09.2025	Pre-conference Excursion B: <i>Mineral collection R. Pomberger</i> , morning Icebreaker Party 18:00–21:00
Monday, 22.09.2025	Scientific program with oral and poster presentations 9:00–18:00 Commercial exhibitions 9:00–18:00 Poster session 16:15–18:00 Public lecture, R. Krickl, <i>Katzengold & Silberfisch</i> 18:00–18:45 Conference dinner, evening 19:00–22:00
Tuesday, 23.09.2025	Scientific program with oral presentations 9:00–17:15 Commercial exhibitions 9:00–17:15 Closing & Student Poster Awards 17:15–17:30
Wednesday & Thursday 24–25.09.2025	Workshop on XRD and XRF by Bruker AXS SE



Opening & Welcome

Hörsaal Raiffeisen, Erzherzog-Johann-Trakt, 1st floor | Monday, 22.09.2025

from 8:00	Registration and Infopoint , Erzherzog-Johann-Trakt, groundfloor, room 023
9:00 - 9:15	Opening Ceremony J. G. Raith, MinPet 2025 Organising Committee A. Potyz, Polish Mineralogical Society M. Dietzel, President of Österreichische Mineralogische Gesellschaft (ÖMG)
9:15 - 9:45	SGA Plenary Lecture M. Keith, FAU Erlangen-Nürnberg <i>Unravelling magmatic-hydrothermal processes by mineral micro-analysis</i>

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SCIENTIFIC PROGRAMME

Monday, 22.09.2025

Session 1

Mineralogy and Crystallography – a Modern Perspective
Hörsaal Raiffeisen | Conveners: T. Đorđević & R. Bakker

09:45 – 10:00

A. Ertl et al.

Investigations on boron-rich tourmaline with the formula $\text{NaAl}_3\text{Al}_6(\text{Si}_3\text{B}_3\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$

10:00 – 10:15

R. Juroszek et al.

"Hopmannite" $\text{Ba}_2(\text{Ti}_5\text{Fe})\text{O}_{13}$ – a potentially new mineral from the Bellerberg volcano, Germany

10:15 – 10:30

M. Z. Khan et al.

Probing and engineering magnetism in phyllosilicates

10:30 – 11:00 Coffee Break

11:00 – 11:30

L. Nasdala et al.

Invited talk: Baddeleyite and "ordered srilankite" from Sri Lanka

11:30 – 11:45

A. Potysz et al.

Long-term quiescent-flow incubation experiment: deciphering metal mobilization from slags

11:45 – 12:00

D. Talla et al.

The Martian 'low-humidity kieserite' – what is it indeed?

Session 5

Chronology of Geological Processes

Hörsaal Raiffeisen | Conveners: D. Gallhofer & E. Skrzypek

12:00 – 12:15

D. Balen et al.

Timing of a brief regional igneous (and metamorphic) Late Cretaceous event in Croatia

12:15 – 12:30

P. Schneider et al.

A brief Late Cretaceous magmatic pulse based on geochemical data from accessory zircon (Mt. Papuk, Croatia)

12:30 – 14:00 Lunch Break

Session 8

Open Session

Hörsaal Raiffeisen | Convener: V. Bertrandsson Erlandsson

14:00 – 14:15

R. Bakker

Hydrogen in fluid inclusions

14:15 – 14:30

A. Pengg et al.

Methane- and hydrogen-rich fluid inclusions in hydrothermally altered felsic granulite

14:30 – 14:45

B. Krüger et al.

Two new djerfisherite-group minerals with charge-unbalanced formulas

14:45 – 15:00

C. Teichert et al.

Air-stable 2D magnets harvested from iron-rich talc minerals

15:00 – 15:30

A. Matkovic et al.

Invited talk: Phyllosilicates: naturally occurring 2D insulators

15:30 – 16:00 Coffee Break

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Session 2

Mineral Raw Materials

Seminarraum F | Conveners: P. Gopon & C. Patten

- 09:45 – 10:00**
Bertrandsson
Erlandsson et al.
Known, but overlooked: genetic insights and critical metal potential of sulfate-hosted sphalerite occurrences in the Northern Calcareous Alps of Austria
- 10:00 – 10:15**
T. Graupner et al.
Trace-metal enrichment in Wissenbach Shale from Bullars, Upper Harz
- 10:15 – 10:30**
A. Geringer et al.
Tracing stratiform Pb–Zn–Ag–Ba deposits in the Graz Paleozoic (Eastern Alps, Austria): geochemical and mineralogical vectors for ore proximity

10:30 – 11:00 Coffee Break

- 11:00 – 11:15**
F. Altenberger et al.
HeavyMin: Utilizing heavy minerals in stream sediments as indicators for regional exploration potential in the Eastern Alps, Austria
- 11:15 – 11:30**
F. Dunkel et al.
Evaluating the economic potential and environmental impact of historic mine tailings – A case study from Spielberg, Styria
- 11:30 – 11:45**
A. H. Menzies et al.
Lithium (Li) mineral characterization of drill cores and hand specimens: supporting exploration with rapid mineralogy mapping
- 11:45 – 12:00**
M. M. Mina et al.
Fluid inclusion study of the Høydal volcanogenic massive sulphide deposit (Norwegian Caledonides)

Session 7

Analytical and Experimental Methods

Seminarraum F | Conveners: R. Arato & D. Sorger

- 12:00 – 12:15**
L. Pitarello et al.
From the universal-stage to TEM-based electron diffraction: studies on shock metamorphism
- 12:15 – 12:30**
M. Strasser et al.
From drill cores to photons: New perspectives from high-resolution core scanning and direct spectrum filtering

12:30 – 14:00 Lunch Break

- 14:00 – 14:30**
I. Dunkl
Invited talk: Zircons forever?? The influence of acid diagenetic pore fluids on the U–Pb chronometer
- 14:30 – 14:45**
G. Degenhart et al.
Monitoring staurolite growth and reaction progress in high–P high–T piston cylinder experiments using micro-computing tomography (μ CT)
- 14:45 – 15:00**
M. Pons Pineyro et al.
Mössbauer spectroscopy for identification of Fe-phases in siderite (FeCO_3)–cement systems
- 15:00 – 15:15**
S. Goldmann et al.
Distribution of trace elements (Re, Mo, and Co) in the Kupferschiefer
- 15:15 – 15:30**
R. Arato et al.
On the geochemical analysis of graphite: how to do it and how to interpret the data

15:30 – 16:00 Coffee Break

- 16:00 – 18:00**
Poster Session
- 18:00 – 18:45**
R. Krickl
Public lecture: Katzensgold & Silberfisch (in German), Hörsaal Raiffeisen
- 19:00 – 22:00**
Conference Dinner,
Zeichensaal, Main Building, 2nd floor

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SCIENTIFIC PROGRAMME

Tuesday, 23.09.2025

Session 3

Applied and Environmental Mineralogy

Hörsaal Raiffeisen | Conveners: M. Dietzel & F. J. Hampf

09:00 – 09:30

F. Mittermayr et al.

Invited talk: Applied mineralogy in construction: toward greener building materials

09:30 – 09:45

B. Ratz et al.

Using mineralogical and chemical analysis for evaluating the application potential of Austrian mineral wastes in alkali-activated materials

09:45 – 10:00

M. Findl et al.

Limits and potentials in the automated characterization of excavated materials with Raman

10:00 – 10:15

T. Kremlicka et al.

Spinel-type crystals in municipal solid waste incineration bottom ashes

10:15 – 10:30

A. Hassan et al.

On the reaction mechanisms of landfill mineral waste in alkali activated binders

10:30 – 11:00 Coffee Break

11:00 – 11:15

C. Grengg et al.

Effects of synthesis parameters on the mineralogy and transformation kinetics of waste-derived sodium silicates

11:15 – 11:30

I. Galan et al.

The role of siderite (FeCO_3) in cementitious systems

11:30 – 11:45

F. Steindl et al.

Calcined clays as sustainable precursors in alkali-activated materials

11:45 – 12:00

M. Pettau et al.

Inhibition of CaCO_3 nucleation – mobile fluorescence spectroscopy for in-situ analysis of polyaspartate

12:00 – 12:15

R. Kaindl et al.

Microstructural evaluation of carbon-based coatings deposited by atmospheric pressure plasma jet on 3D-printed polymers

12:15 – 12:30

R. Krickl et al.

Golden fruits and blue-spotted panthers: First pigment investigations on the Roman “Amor and Psyche” sarcophagus in Vienna

12:30 – 14:00 Lunch Break

Session 6

Environmental / Low-temperature Geochemistry,

Hörsaal Raiffeisen | Conveners: A. Baldermann & F. M. Stamm

14:00 – 14:30

A. Demeny

Invited talk: Stable isotopic constraints on low-temperature carbonate formation processes

14:30 – 14:45

D. Heuser et al.

Influence of surface topography and microstructure on the ice nucleation activity of alkali feldspar

14:45 – 15:00

F. M. Stamm et al.

Amorphous silica vs. short-range ordered hydroxy-aluminosilicate formation

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Session 4

Igneous and Metamorphic Petrology

Hörsaal Raiffeisen | Conveners: B. Joachim-Mrosko & J. G. Raith

15:00 – 15:30

A. Sitnikova et al.

Invited talk: Carbonate-bearing alkaline syenite magmatism in Quarternary eruptive centers of the Eifel

15:30 – 16:00 Coffee Break

16:00 – 16:15

B. Joachim-Mrosko et al.

Bromine partitioning between olivine, orthopyroxene and silicate melt at MORB and OIB source condition

16:15 – 16:30

S. Santitharangkun et al.

Poly-metamorphic evolution and associated magmatic activity in the Inthanon zone, northern Thailand

16:30 – 16:45

Z. Gverić et al.

Evidence of (very-) low-grade metamorphism in Mesozoic carbonate rocks of the western part of Mt. Papuk, Croatia

16:45 – 17:00

D. Sorger et al.

Monazite, garnet, and melt inclusions: Insights into mineral growth and crustal melting during P–T evolution

17:00 – 17:15

F. Melcher

Closing of Conference & Student Poster Awards

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APPLIED to MINERAL
DEPOSITS**



Timetable Overview

Sunday, 21.09		Monday, 22.09		Tuesday, 23.09				
from 08:00 09:00 09:15 09:30 09:45 09:45 10:00 10:15 10:30 10:45 11:00 11:15 11:30 11:45 12:00 12:15 12:30 12:45 13:00 13:15 13:30 13:45 14:00 14:15 14:30 14:45 15:00 15:15 15:30 15:45 16:00 16:15 16:30 16:45 17:00 17:15 17:30 17:45 18:00 18:15 18:30 18:45 19:00 19:15 19:30 19:45 20:00 20:15 20:30 20:45 21:00 22:00	Excursion B					Registration		Registration
						Opening & Welcome		Invited Talk, Mittermayr
						SGA Plenary Lecture, Keith HS Kuppelwieser Seminarraum F		Ratz
						Ertl		Findl
						Juroszek		Kremlicka
						Khan		Hassan
						Coffee Break		Coffee Break
						Invited Talk, Naszdala		Grenng
						Potysz		Galan
						Talla		Steindl
	Balen		Pettauer					
	Schneider		Kaindl					
	Strasser		Krickl					
	Lunch Break					Lunch Break		
	Bakker		Invited Talk, Dunkl	Invited Talk, Demeny				
	Pengg		Degenhart	Heuser				
	Krüger							
Teichert		Pons Phneyro	Stamm					
Invited Talk, Matkovic		Goldmann	Invited Talk, Sitnikova					
		Arato						
Coffee Break					Coffee Break			
Poster Session					Joachim-Mrosko			
					Santitharangkun			
					Gveric			
					Sorger			
					Closing & Poster Awards			
Public Lecture, Krickl								
Conference Dinner, Zeichensaal, Main Building until 22:00								
Registration								
Icebreaker Party, Erzherzog-Johann Trakt								

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POSTERS | 21-22.09.2025

Poster Exhibition

Posters will be displayed in the exhibition area on the 1st floor of the conference venue in Erzherzog-Johann-Trakt throughout the entire conference. *Presenters are expected to be available during the designated poster session on Monday afternoon.*

Student Poster Award

The Austrian Mineralogical Society (ÖMG) will present awards for the three best poster contributions by M.Sc. or Ph.D. students. To be eligible, students must be the first author of the poster and attend the conference in person. Posters will be evaluated by a jury throughout the conference. Each award carries a prize of €200.

Eligible students must register for the Student Poster Award competition no later than at the time of conference registration. Proof of student status is required.

Session 1

Mineralogy and Crystallography – a Modern Perspective

Conveners: T. Đorđević & R. Bakker

S1 P1

N. Lammer et al.

The mineralogy and weathering of thallium-rich waste dumps of Crven Dol locality, Allchar deposit

S1 P2

M. Nahlik et al.

Mineralogical study of industrially polluted sediments in Campania, Italy

S1 P3

L. Plakolm et al.

A mineralogical perspective on foraminiferal architecture: insights into a unique biosphere–geosphere interaction

S1 P4

D. Šrodek, M. Dulski

Metasomatic origin of chemical zoning in crystals of the apatite supergroup minerals from the Shadil Khokh Volcano

S1 P5

K. A. G. Sameera et al.

Is there radiation damage in baddeleyite (ZrO_2)?

S1 P6

J. Einzmann et al.

Colour and internal texture of synthetic blue star sapphire

S1 P7

K. Skrzyńska et al.

Rotemite ($6R$), $\text{Ca}_4\text{Cr}_2(\text{OH})_{12}\text{Cl}_2 \cdot 4 \text{H}_2\text{O}$ – natural Cr-bearing lamellar double hydroxide, $\text{Ca}_2\text{Cr-LDH}$

S1 P8

K. Vacek et al.

Ti(II) retention under acidic, sulphate-rich conditions: synthesis and structural insights in the Ti(II)–Al(III)–S(VI)– H_2O system

S1 P9

N. Omer et al.

Crystal chemical studies on transition metal-bearing solid solution systems with kieserite-type crystal structures

S1 P10

C. Hejny et al.

From mystery to modulation: the structural story of $\text{Rb}_2\text{Si}_2\text{O}_5$

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Session 2

Mineral Raw Materials

Conveners: P. Gopon & C. Patten

S2 P1

E. Schreieck et al.

Chemical characterization of fahlore (tetrahedrite–tennantite solid solution series) from different tectono-stratigraphic units in North Tyrol

S2 P2

E. Sist et al.

Metallogenesis and sulphide-hosted critical and precious metals in epithermal Au and porphyry Cu deposits of Iran

S2 P3

G. Obbágy et al.

Mineral impurities and their traceability along the graphite value chain

S2 P4

F. J. Hampl et al.

Formation conditions of Veitsch-type sparry magnesite from the city of Leoben (Eastern Alps, Austria)

S2 P5

E. Topalovic et al.

Quantitative mineralogical characterization of Triassic karst bauxites from the Adriatic region (Croatia)

Session 3

Applied and Environmental Mineralogy

Conveners: M. Dietzel & F. J. Hampl

S3 P1

M. Pettau et al.

Hydration of periclase and the influence of pH on brucite crystal morphology

S3 P2

S. Reiter, M. Lehner

Impact of mineral composition on CO₂ sequestration efficiency in Ca-rich steel slags

S3 P3

B. Nader et al.

From lakebed to structure: Evaluating dredged sediment for sustainable 3D-printing

Session 4

Metamorphic and Igneous Petrology

Conveners: B. Joachim-Mrosko & J. G. Raith

S4 P1

A. Dey et al.

Multiple reaction microstructures in metagabbro from the Western Dharwar craton, India

S4 P2

V. Kohn et al.

Rutile inclusions in garnet: simultaneous formation of host and inclusions

S4 P3

L.-J. Zaminer et al.

Mineralogy and petrology of epidote-group minerals

S4 P4

P. Schilcher et al.

Petrography and geochemistry of tholeiitic basalts from early eruptive units of Mt. Etna

S4 P5

A. Zarasvandi et al.

Fertility evaluation of intrusive bodies in the southern part of the Kerman magmatic belt, Iran: using geochemical studies

Session 5

Chronology of Geological Processes

Conveners: D. Gallhofer & E. Skrzypczek

S5 P1

B. Huet et al.

Over 200 Myr of igneous history in the Eastern Tauern Window (Austria)

S5 P2

K. Karner-Rühl et al.

Pre-Alpine evolution of Austroalpine basement units: new data from metapelites and metagranitoids from the Seckau Complex

S5 P3

K. Karner-Rühl et al.

Eclogite-facies metamorphism in the Speik Complex (Eastern Alps): tracing Early Devonian oceanic subduction in the Austroalpine domain

S5 P4

M. Reiser et al.

Cambrian arc magmatism and Variscan metamorphic overprint in the Ötztal-Stubai Complex: insights from U–Pb zircon dating and geochemical data

S5 P5

D. Sorger et al.

Primordial monazite formation in Archean metapelites of the Isua Supracrustal Belt, Greenland: New insights from in-situ U–Th–Pb dating

S5 P6
D. Klümper et al.

Petrology, textural evolution, mineral chemistry and CHIME U–Th–Pb dating of monazite along the Eoalpine metamorphic gradient in the Vinschgau Valley (Matsch Unit, Texel Unit, South Tyrol, Italy)

S5 P7
D. Gallhofer et al.

Zircon survival during Carboniferous partial melting of Cambrian granitoid (Mt. Papuk, Croatia)

S5 P8
E. Skrzypek et al.

Fluid-absent and fluid-present alteration of magmatic monazite in Variscan crystalline rocks from Mt. Papuk (Croatia)

S5 P9
M. Pankhurst et al.

The “rapid blood test” approach to volcanic eruption monitoring using micro-XRF

Session 6

Environmental / Low-temperature Geochemistry
Conveners: A. Baldermann & F. M. Stamm

S6 P1
A. Baldermann

Glauconite as a paleo-environmental archive

S6 P2
K. Hebenstreit et al.

Influence of CaO on the hydration behaviour of MgO

S6 P3
L. Belohlavek et al.

Hydrothermal alteration of cerussite, dolomite and rhodochrosite in oxygen-18 solution

S6 P4
L. T. Huber et al.

Allophanes in periglacial environments: A comparison of experimental and natural precipitation mechanisms

S6 P5
L. Werber et al.

Sub-zero carbonates – An experimental approach

S6 P6
X. Xu et al.

Element fluxes in surface sediments across the Yangtze River Estuary – East China Sea shelf transect

S6 P7
J. M. Hiller et al.

REE mineralization at Koppamurra, South Australia: Insights into the transport, vertical and lateral distribution of REEs in a low-temperature environment

Session 7

Analytical and Experimental Methods
Conveners: Conveners: R. Arato & D. Sorger

S7 P1
L. Herrero Schmidt,
B. Krüger

Orthorhombic Ba₂Zr₂Si₃O₁₂: A previously unrecognized polymorph or the true structure?

S7 P2
J. Krause et al.

Introducing G.O.Joe: A new online tool for LA-ICP-MS data reduction

Session 8

Open Session
Convener: V. Bertrandsson Erlandsson

S8 P1
S. Petrović et al.

Characterisation and technological procedures for recycling and reuse of flotation tailings from the Rudnik Mine in Serbia

S8 P2
A. Pflügler et al.

Cosmic dust in Tyrol and the search for urban micrometeorites: mineralogical-chemical analysis of metallic spherules

S8 P3
I.-L. Schmidt et al.

Tracing Neolithic toolstone procurement: Mineralogical and geochemical characterization of amphibole-bearing metabasites in the Jizera Mountains (Bohemian Massif)

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EXCURSIONS | WORKSHOP

Excursion A: Arzberg Historic Pb-Zn Mine and Cheese Tasting

Saturday 20 September 2025, one day excursion

Guides: Frank Melcher, Annika Geringer, Ralf Schuster, Heinrich Mali

Meeting point and starting time: 8:00 am, in front of main entrance of Peter-Tunner-Gebäude, Peter Tunner Straße 5 (building B on map of venue location)

Excursion B: Mineral Collection R. Pomberger, Eisenerz

Sunday 21 September 2025, half-day excursion

Guide: Roland Pomberger

Meeting point and starting time: 9:00 am, in front of main entrance of Peter-Tunner-Gebäude, Peter Tunner Straße 5 (building B on map of venue location)

Commercial Exhibitions

Several companies will present their products and services in connection with the meeting activities. The exhibition area is located at Erzherzog-Johann Trakt, on the 1st floor, in the main conference area.

The commercial exhibition is open for all participants, but also for non-registered staff and students from the Technical University of Leoben on Monday to Tuesday during the conference.

XRD, XRF Workshop Bruker AXS SE

The free of charge post-conference workshop on XRD and XRF will be held by Bruker AXS SE from 23–24 September at Montanuniversität Leoben.

Seminarraum F, Erzherzog-Johann-Trakt, groundfloor

Note that pre-registration was required for this workshop.



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GENERAL INFORMATION

Name Badges

Admission to the conference venue is possible with a valid name badge only. Badges must be used throughout the entire congress and at the official social events, including the conference dinner. Please return the used badges after the conference, a box is provided at the registration desk.

Coffee and Lunch Breaks

Coffee, tea and some refreshments will be served during the morning and afternoon breaks in the conference area. Lunch is available at Mensa on the groundfloor of the conference area on Monday and Tuesday midday. *The price for lunch is not included in the conference fee.*

Wi-Fi

Free Wi-Fi internet connection access will be provided. You will obtain an access code upon registration.

Cloakroom

A wardroom for storage of luggage is available. Ask at the registration desk. Storage is at your own risk.

Payments, Banks, Cash Machines

Next banks and ATMs (Bankomat) are to be found at the main station – Sparda Bank, Südbahnstraße 1 – and in the city center – UniCredit Bank, Franz Josef–Straße 2, 8700 Leoben. *Please note that any payments on-site are only accepted in cash!*

Insurance

MinPet 2025 cannot accept liability for personal injuries sustained, or for loss or damage of personal belongings either during or as a result of the meeting. Please check the validity of your personal insurance.

Emergency Calls

- Fire brigade 122
- Police 133
- Ambulance 144
- European emergency call 112

Health Care

In case you need assistance for urgent medical issues or any injuries please contact either the staff of MinPet 2025 or call the porter of Technical University of Leoben, phone +43 3842 402. The next hospital is the Landeskrankenhaus (LKH) Hochsteiermark, Vordernberger Straße 42, 8700 Leoben, phone: +43 3842 4010.

Public Transport

Leoben is a small city. Most hotels and facilities (supermarkets, drugstores, pharmacy etc.) can easily be reached by foot. Public bus services are available to the suburbs of Leoben. [Timetable](#)

Parking Facilities

Most parts of Leoben centre are short-term payable parking zones. However, free parking is available on Parkplatz A of the Technical University of Leoben. The entrance is opposite Roseggerstraße 10.

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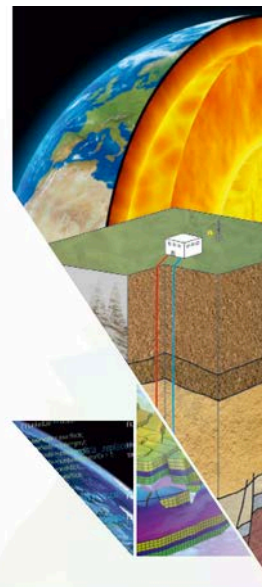
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