

ATC² Tunnel Symposium 2025



ATC² Tunnel Symposium Special challenges in tunnel construction Causes – Effects – Measures

Date

Thursday, 13.11.2025, 08:30 – 17:30

Friday, 14.11.2025, 08:30 – 13:00

Event location

Study Center (House K, see campus map)

Technical University of Leoben

Peter Tunner Straße 23

8700 Leoben

Participation fees

before 30.09.2025: **240,00 €**

from 01.10.2025: **295,00 €**

Registration on site: **320,00 €**

Students of the MUL: **49,00 €**

Students of the MUL: **65,00 €**

Students of the MUL: **85,00 €**

Excursions

Wednesday, 12.11.2025

Brenner Basistunnel

Time: 08:00,

Innsbruck Main station

Participation fee: **95€**

Friday, 14.11.2025

Zentrum am Berg

Time: 12:00,

Franz Josef Str.18,

8700 Leoben

Participation fee: **50€**

Information

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Registration under

<https://atc2-symposium.eu/>



Thursday, 13. November 2025

08:30	Opening	Robert Galler
08:45	Frequent failure modes in Tunneling	Karel Rössler
09:15	Brenner Base Tunnel: Geotechnical challenges in the emergency stop area Innsbruck	Christoph Waldhör, Stefan Mössmer
09:45	Geotechnical Challenges by crossing a major fault zone at the Semmering Base Tunnel	Mario Hein, Andreas Kelder, Robert Holzer, Gerhard Gobiet
10:15	Backfilling the shaft base caverns in construction lot SBT 1.1 of the Semmering Base Tunnel	Johann Bauer, Christoph Diewald, Hannes Hauer
10:45	Coffee break	
11:15	Karavanke tunnel: lessons learned during tunnelling in extremely squeezing ground conditions	Jure Klopčič, Marko Žibert, Turnšek Žan
11:45	Modern demands and new challenges in hard rock tunnelling in Norway – case studies	Jorge Terron- Alemanara, Karl Gunnar Holter
12:15	Delhi Metro Airport Link C6 – Anatomy of a Collapse	Johann Brandl
12:45	Lunch break	
14:00	Demolition of a wide NATM Platform Tunnel to connect a Pedestrian Tunnel in Weak Ground Conditions	Hatice Gul Selman
14:30	NATM tunnel collapse at Heathrow Airport	Adrian Kattinger, Johann Golser
15:00	Failure of support measures – analysis based on 3 examples	Max John
15:30	Coffee break	
16:00	Prediction of stress induced tunnel collapses based on deformation monitoring	Manuel Entfellner, Bernd Moritz, Wulf Schubert
16:30	The main challenges with standardising the design of tunnels and underground structures - the first steps towards a potential addition to Eurocode	Gunilla Franzén
17:00	Beers and pretzls	



Friday, 14. November 2025

08:30	Challenges related to face stability of EPB-Shields and the influence of the supporting medium on its reuse	Christoph Budach, Markus Thewes
09:00	Impact of Water Ingress and Tunneling Operations on Ground Deformations: Insights from the Uma Oya Multipurpose Development Project	Gabe Walton, Helmut Wannenmacher
09:30	Water treatment on tunnel construction sites – underestimated or overrated?	Memarzadeh Ashtiani
10:00	Experimental investigations on fire behavior - Results of the DZSF research project “Structural fire protection in railroad tunnels”	Anna-Lena Hammer
10:30	Coffee break	
11:00	“Reference Class Forecasting” – data-based risk estimation for complex projects	Alexander Bender, Frank Lulei
11:30	A major construction site under public scrutiny A10 Tauern Autobahn. Repair of the Ofenauer and Hiefler tunnels and the Werfen tunnel group	Gerald Edlmair
12:00	New developments for analysis and presentation of tunnel monitoring data	Klaus Chmelina, Johann Golser
12:30	The Koralm Railway – a project of the century goes into operation	Klaus Schneider
13:00	Closing remark	Robert Galler

About the Symposium

ATC² stands for Austrian Tunnel Competence Center and represents a platform for innovation and know-how transfer in the field of tunnel construction. In addition to developments in the NATM tunnelling method, continuous tunnelling and special underground construction measures will also be discussed. Special challenges and innovations from deep rock tunnelling to urban shallow soft ground tunnelling are taken into account.



CAMPUS – Montanuniversität LEOBEN



Hotels in Leoben

Hotel	Address	E-Mail	Tel.-Nr.	URL
<u>Hotel Kongress</u>	Hauptplatz 1 A-8700 Leoben	office@hotelkongress.at	+43 3842 46800	https://www.hotelkongress.at/de/
<u>Hotel & Asia Spa Leoben</u>	In der Au 1-3 A-8700 Leoben	ir.info@asiaspa.at	+43 3842 405	https://www.asiaspa.at/de/spa-hotel-leoben-steiermark
<u>Hotel Kindler</u>	Straußgasse 7-11 A-8700 Leoben	office@kindler.at	+43 384243202	https://kindler.at
<u>Hotel Bellini</u>	Kärntnerstraße 282 A-8700 Leoben	info@hotelbellini.at	+43 664 167 3516	https://www.hotelbellini.at/cms
<u>Gasthof „Zum Greif“</u>	Waasenstraße 5 A-8700 Leoben	klasugastro@gmx.at	+43 3842 21486	https://www.gasthofzumgreif.at
<u>Leoben City Apartment</u>	Vordernberger Straße 23 A-8700 Leoben	-	+43 664 88383858	Booking.com/trivago.de