

Conference Fee

Registration is possible via E-Mail or Website:

E-Mail: RTM@tu-freiberg.de

Website: <https://tu-freiberg.de/rtm/registration>

Conference fee	Until Feb. 28th	230 €
	From Mar. 1st	260 €
Cancellation fee:	Until Mar. 17th	30 €
	From Mar. 18th	Full Fee

Conference Fee includes:

- ⇒ Brochures of the Conference
- ⇒ Food, coffee and soft drinks
- ⇒ Evening Event (March 26th, 2019)
- ⇒ Taxes

Conference Chair

Technische Universität Bergakademie Freiberg

Department of Mining and Special Civil Engineering
Prof. Dr.-Ing. Helmut Mischo

Department of Mine surveying and Geodesy
Prof. Dr.-Ing. Jörg Benndorf

Registration & Contact

Department of Mining and Special Civil Engineering

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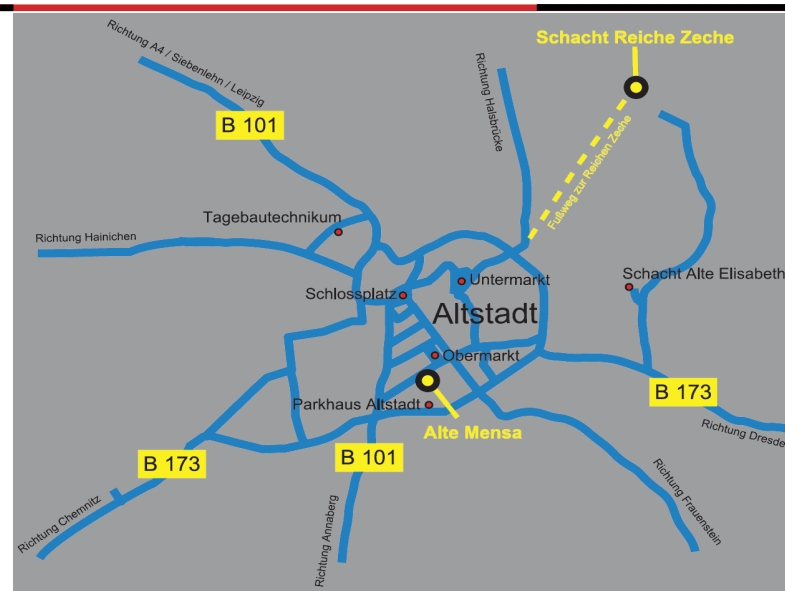
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Web <https://tu-freiberg.de/rtm/registration>



CONFERENCE VENUES

Demonstration Day (March 26th)

Altes Fördermaschinenhaus and Reiche Zeche
Fuchsmühlenweg 9
09599 Freiberg

Parking possibilities:
Parking site Reiche Zeche

Evening Event (March 26th)

Konzert- & Ballhaus Tivoli
Dr.-Külz-Straße 3
09599 Freiberg

Parking possibilities:
Car Park am Tivoli

Conference (March 27th)

Alte Mensa
Petersstraße 5
09599 Freiberg

Parking possibilities:
Car Park Altstadt
Schillerstr. 4
Car Park am Tivoli

Short Course (March 28th)

Karl Neubert Bau
Fuchsmühlenweg 9B
09599 Freiberg



European
Commission

Horizon 2020
European Union funding
for Research & Innovation



**Real-Time Optimization of the Extraction and the
Logistics Process in Highly Complex Geological and
Selective Mining Settings**

Real Time Mining

Demonstration Day & 2nd International Conference

Invitation

**Freiberg
March 26th - 27th, 2019**



Program

Tuesday, March 26th, 2019

Event location: Tivoli

17:30	Doors open at Tivoli
18:00	Welcome
18:10	Real-Time Mining - Results and Outlook
18:20	Keynote - R. Dimitrakopoulos
19:00	Evening Event

Wednesday, March 27th, 2019

Event location: Alte Mensa

08:00	Coffee
09:00 - 09:30	Keynote - A. Oberrauner
09:30 - 10:45	1st Session International Mining 4.0 Projects

L. Lopes

Developing an underwater robotic platform to explore flooded mines – the state of the UNEXMIN project

M. Le Guen

SOLSA-Field tests: indispensable for reaching SOLSA Goals

Ch. Sweeney

Remote Reading Instrumentation Requirements for Longwall Automation in Underground Coal Mines

10:45 - 11:15 Break

11:15 - 12:55 2nd Session - Parallel Session A Sensing 4.0

M. Sandtke

Geochemical mapping of drill core samples using a combined LIBS and XRF core scanning system

F. Desta

Evaluation of sensor technologies for on-line raw material characterization in “Reiche Zeche” underground mine - outcomes of RTM implementation

S. Graszak

Evaluation of Thermal Imaging based on LWIR cameras for Rock Characterisation

S. Delchini

Moisture effect on hyperspectral analyses tested on bauxites and Ni-laterites samples

11:15 - 12:55 2nd Session - Parallel Session B Sensing 4.0

H. Nolte

SOLSA Drill, a modular and versatile tool for high quality sampling in heterogeneous soils

D. Maat

Underground Positioning System: DriftLess contribution within a combined with UWB position estimation algorithm

R. Z. Papp

Multispectral imaging of minerals in flooded mines – a case study

J. M. Almeida

UNEXMIN underwater 3D mapping with sonar and laser scan

12:55 - 13:40 Lunch Break

13:40 - 14:10 Keynote - M. Lowther, M. Wimmer

**14:10 - 15:50 3rd Session
Resource Modelling 4.0**

J. Benndorf

Unlocking online sensor potential: innovative approaches for real-time resource model updating

D. Buttgerit

Virtual Reality Mine Planning and Operation Control

J.R. van Duijvenbode

Use of time-series event classification to control machine performance in the comminution circuit – a conceptual framework

J. V. Neves

The Use of Production Scheduling Analogs for Reconciliation of Mining Reserves

15:50 - 16:10 Break

16:10 - 17:50 4th Session - Parallel Session A Mine Planning Optimization 4.0

D. Horner

Data exchange by WLAN and TTE in underground mining to a Supervisory Control And Data Acquisition system basing on OPC Unified Architecture

H. Nolte

Geotechnical parameter definition from machine performance measures for cutting and sonic drilling process

J. Hornung

Optimization of Underground Mining Processes by the Use of Real-Time Data

W. Cacao

Improved grade classification through sequential resource model updating using real time monitoring data in underground mining

16:10 - 17:50 4th Session - Parallel Session B Mine Planning Optimization 4.0

D. Philip

Unraveling the Capability of Artificial Intelligence for Prediction of Rock Fragmentation

J. V. Neves

Uncertainty Integration in Dynamic Mining Reserves

M. Suciu

You can't improve what you can't see - The Talpasolutions approach to utilize real time machine data, seeking enhanced mine productivity and efficiency

E. Pučko

Testing of prototype robot UX-1a for exploration and mapping of flooded underground mines

17:50 - 18:00 Closing Remarks