

## Programme

5th International Colloquium of Non-Blasting Rock Destruction  
&  
5th International Protodjakonov-Colloquium  
(19<sup>th</sup> – 22<sup>nd</sup> November 2017)

### Sunday, 19<sup>th</sup> November 2017

16:00-18:00	<b>Check-in at Venue</b>
18:00	<b>Get-together at Restaurant "Ratskeller – Schankhaus 1863"</b> Obermarkt 16, 09599 Freiberg

### Monday, 20<sup>th</sup> November 2017

from 8:00 on	Registration
9:00-9:30	<b>Opening ceremony (Prof. Drebenstedt)</b> Session 1: Innovative rock excavation technologies
9:30-10:00	<b>Hartlieb, P. (MU Leoben, Austria)</b> , Combination of alternative methods to improve hard rock excavation
10:00-10:30	<b>Rybar P. (Technical University Kosice, Slovakia)</b> Thermal sinking of deep holes
10:30-10:45	Coffee break
10:45-11:15	<b>Anders E. (TU Dresden, Germany)</b> Electro-pulse drilling method  Session 2: Mining equipment / Cutting tools
11:15-11:45	<b>Balci C., Polat C., Atar M. (Istanbul Technical University, Turkey)</b> Roadheader Performance Prediction Using Newly Developed Portable Linear Rock Cutting Device

11:45-12:15	<b>Andras I., Lazar M., Radu S. M., Popescu F.D., Andras A. (University of Petrosani, Romania)</b> Study regarding the use of bucket wheel excavators in faces with hard to excavate rock intrusions
12:15-13:30	Lunch break
13:30-14:00	<b>Hartlieb P., Gerer R., Sifferlinger N. (MU Leoben/Sandvik Mining and Construction GmbH, Austria)</b> The use of diamond based tools in mining picks – A status report on advantages, challenges and the applicability
14:00-14:30	<b>Ebenhan K. (TAKRAF, Germany)</b> Mechanical Behaviour of Point Attack Picks with Respect to the Holder Type Session 3: Mining operations / Mining projects
14:30-15:00	<b>Pavlović V., Drebenstedt C., Ignjatovic D., Subaranovic T. (Serbia)</b> Pilot project for opencast high wall auger lignite mining
15:00-15:30	<b>Grafe B. (TU Bergakademie Freiberg, Germany)</b> Ways towards mechanical highly selective mineral production chains
15:30-16:00	Coffee break
16:00-16:30	<b>Mikoláš M., Šancer J., Molinek O. (Technical University Ostrava)</b> Methods and means of dismantling blocks for coarse and noble stone production without blasting

16:30-17:00	<b>Bongaerts J., Rosin K., Liu J. (TU Bergakademie Freiberg, Germany)</b> Economic, ecological and social assessment of a new "Smart Mining Technology"
17:00-17:30	<b>Köhler U. (LEAG, Germany)</b> Current status of operation lead- and automation systems by LEAG
19:00-24:00	Miners dinner, Körnerstraße 2, 09599 Freiberg

### Tuesday, 21<sup>st</sup> November 2017

9:00-9:30	<b>Sobko B., Lozhnikov O. (NMU, Ukraine)</b> Substantiation of Non-Blasting Technologies Efficiency at the Mining Western Tyaginskoe Limestone Deposit
9:30-10:00	<b>Korobiichuk V., Shlapak V. (Zhytomyr State Technological University, Ukraine)</b> Carrying out capital trenches by diamond-rope machines
10:00-10:30	<b>Šancer J., Mikoláš M., Skopal K. (Technical University Ostrava)</b> Experiences with Underground Slate Mining by Circular Saw in the Czech Republic
10:30-11:15	Group photo & coffee break
11:15-11:45	<b>Kalchuk S. (Zhytomyr State Technological University, Ukraine)</b> New approaches of dimension stone splitting by non-blasting methods in a quarry

### Session 4: Rock properties / Rock fragmentation

11:45-12:15	<b>Helmons R. (Delft University of Technology, Netherlands)</b> Simulating the cutting process of underwater rocks for dredging and deep sea mining applications
12:15-12:45	<b>Morgenstern R. (TU Bergakademie Freiberg, Germany)</b> Simulation of the Rock Cutting Process using Particle and Block Based Models
12:45-13:15	<b>Shepel T. (TU Bergakademie Freiberg, Germany)</b> Theoretical investigation of the stress field produced by the cutting tool in rock
13:15-13:30	Closing Ceremony
13:30-14:30	Lunch
14:30	Meeting for mine visit
14:45-17:30	Visiting the underground mine "Reiche Zeche"

### Wednesday, 22<sup>nd</sup> November 2017

9:00-16:00	<b>Field Excursion: Lignite Mine "Welzow Süd" of LEAG with Conveying Bridge Technology</b> Bus station "Schlossplatz".
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