

DIM ESEE-2 innovation workshop: Innovation in extraction
18 – 20 October 2023, Dubrovnik

DRAFT Topics

<p>Day 1: Blasting Extraction Methods</p> <ul style="list-style-type: none"> • Blasting technology trends • Low-impact mining • Next-gen explosives • Blast design software 	<ul style="list-style-type: none"> • Mark Ganster / AustinPowder: Advanced technologies in blast modelling using electronic detonators • Mark Ganster / AustinPowder: Case study: Improving mill throughput by blast optimization using advanced technologies • Philipp Hartlieb / MUL: The influence of confinement on detonation parameters • <i>Alex Tscharf / MUL:</i> <i>Drone survey of blasting results</i> <i>(to be confirmed)</i>
<p>Day 2: Mechanical Extraction Methods</p> <ul style="list-style-type: none"> • Hardrock cutting • Sandvik • Epiroc 	<ul style="list-style-type: none"> • Nikolaus Sifferlinger / MUL: latest developments in hard rock cutting • Hubert Kargl / Sandvik: Cutting for hard rock development, the MX650 experience • Morgan Rody / Epiroc: The EPIROC Mobile Miner
<p>Day 3: Innovative & Sustainable Extraction Practices</p> <ul style="list-style-type: none"> • Environmental impacts • Operational Improvement Methods • Automation&Safety • Water-assisted cutting • Microwave-assisted excavation 	<ul style="list-style-type: none"> • Nikolaus Sifferlinger / MUL: Resilient Bio-inspired Modular Robotic Miners - the <i>Robominer</i> project • Chr. Heiss / MUL: Safety Concept for production blasting in populated areas (Leitendorf best-practise case) • Philipp Hartlieb / MUL: The Digitalized Mining Process - <i>IlluMINEation</i> project