

MONDAY (14.10.2019.)

Morning session

7:30-
8:30

Breakfast

9-
11:30

Check-in and registration

Introduction

Administrative Matters

Academic Matters

11:30-
12:15

Welcome reception drink + Light lunch

Afternoon session – the future of EU mining sector

12:15-
12:30

Welcome speeches – School directors

12:30

Lesson number 1 (45 min)

Lecturer name: Dr. Patrick Nadoll, thematic officer, EIT RawMaterials

Lecture title: The Future of the European Raw Materials sector (perspective 2050)

13:15

Lesson number 2 (45 min)

Lecturer name: Dr. Aurela Shtiza, IMA Europe

Lecture title: The Future with Industrial Minerals (2050)

14:00

Lesson number 3 (45 min)

Lecturer name: Mark Loveitt, International Wrought Copper Council & Bernard Respaud, Copper Alliance

Lecture title: The Future of Europe's Copper Industry (2050)

14:45-
15:30

Round Table: Small mining sites - Innovation in mining (Directors + Teaching Staff + all)

Coffee break (15:30-15:45)

15:45-
16:30

Lesson number 4 (45 min)

Lecturer name: Dr. Roman Dychkovskiyi, Dnipro University of Technology

Lecture title: Innovative methods for small mining

16:30

Case study presentation

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17:30

Case study: AGH, TUKE, MUL, RGF, UMG "Ivan Rilski", Dnipro University of Technology

19:00

Welcome Dinner

SMALL MINING SITES – INNOVATION IN MINING

TUESDAY (15.10.2019.) – Innovation in mining	
Morning session	
7:30-8:30	Breakfast
9:00 - 10:30	Lesson number 5 <i>Lecturer name: Dr. Imre Gombkötő and Dr. Markus Klein, EIT RawMaterials</i> <i>Lecture title: The role of innovation and innovative ideas in raw material sector + Innovation workshop</i>
<i>Coffee break (10:30-10:45)</i>	
10:45-12:15	Lesson number 6 <i>Lecturer name: Dr. Nikolaus Sifferlinger, Montanuniversitaet Leoben</i> <i>Lecture title: Excavation of flooded open pits – Can we continue with mining operations?</i> <i>Keywords: Cutting, abandoned mines, small mines, excavation</i>
12:15-13	Light lunch
Afternoon session	
13-14:30	Lesson number 7 <i>Lecturer name: Dr. Kateryna Sergieieva, Dnipro University of Technology</i> <i>Lecture title: Specialized remote sensing system: GIS Rapid 3.2</i> <i>Keywords: Mapping, forecasting of mineral deposits, risk assessment, environmental monitoring</i>
<i>Coffee break (14:30-14:45)</i>	
14:45-16:15	Lesson number 8 <i>Lecturer name: Dr. Peter Blistan, MBA, Technical University of Košice</i> <i>Lecture title: Surveying open pit mines using low cost aerial photogrammetry</i> <i>Keywords: UAV, quarries, 3D models, simulation, drones</i>
18:00	Dinner

SMALL MINING SITES – INNOVATION IN MINING

WEDNESDAY (16.10.2019.) – EU legislation and urban mining

Morning session

7:30-
8:30

Breakfast

8:45-
10:15

Lesson number 9

Lecturer name: Dr. Zlatko Briševac, University of Zagreb, Faculty of Mining, Geology and Petroleum Engineering / Dr. Darko Vrkljan, University of Zagreb, Faculty of Mining, Geology and Petroleum Engineering

Lecture title: Policy and innovation for European value chain – Results of the H2020 MIN-GUIDE project

Keywords: Secure and sustainable supply of raw materials, cornerstones of an Innovation Friendly Policy Framework, raw materials and the circular Economy

Coffee break (10:15-10:30)

10:30-
12:15

Lesson number 10

Lecturer name: Hanno Bertagnol, Montanuniversitaet Leoben

Lecture title: Vibration-free rock excavation in urban environments

Keywords: Cutting, environment, small mines, excavation, vibration

12:15 -
13

Light lunch

Afternoon session

13-
14:30

Lesson number 11

Lecturer name: Dr. Kostiantyn Hanushevych, Dnipro University of Technology

Lecture title: Mining below urban areas – An impact on the surface infrastructure

Keywords: Urban territories, rockmass relaxation, gluing substances, anchoring, surface buildings armouring

Coffee break (14:30-14:45)

14:45-
16:00

Case studies – work in groups

16:15

City Tour

18:00

Dinner

SMALL MINING SITES – INNOVATION IN MINING

THURSDAY (17.10.2019.) – Exploitation: innovation & optimization	
<i>Morning session</i>	
7:30-8:30	Breakfast
9-10:30	<p>Lesson number 12</p> <p>Lecturer name: <i>Dr. Iliya Garkov, Dundee Precious Metals</i></p> <p>Lecture title: <i>Mining for the Future - Digital technologies in underground mining</i></p> <p>Keywords: <i>wi-fi & mine modernisation, real time monitoring, drone mapping, social aspects</i></p>
Coffee break (10:30-10:45)	
10:45-12:15	<p>Lesson number 13</p> <p>Lecturer name: <i>Dr. Pawel Kawalec, Kawalec Consulting GmbH</i></p> <p>Lecture title: <i>How to really reduce costs in open pit mining operations?</i></p> <p>Keywords: <i>Cost excellence, planning and quality modeling, holistic approach, management and optimization</i></p>
12:15 - 13	Light lunch
<i>Afternoon session</i>	
13-14:30	<p>Lesson number 14</p> <p>Lecturer name: <i>László Ézsiás and Dr. Botond Kertész, Colas Északkő Kft.</i></p> <p>Lecture title: <i>Optimization and diversification of quarry network – Success story from Hungary</i></p> <p>Keywords: <i>Quarry network optimisation, quarry portfolio diversification-optimisation, technology developed sales tools, professional standards lobby activities, R&D projects</i></p>
Coffee Break (14:30-14:45)	
15:00	Excursion

SMALL MINING SITES – INNOVATION IN MINING

FRIDAY (18.10.2019.) Focus on Cement/Lime industry	
<i>Morning session</i>	
7:30-8:30	Breakfast
9-10:30	Lesson number 15 Lecturer name: <i>Eleni Despotou, European Lime Association</i> Lecture title: <i>Competitive and efficient European lime industry</i> Keywords: <i>carbon intensive industry, energy intensive industry, fuel switch, carbonation, value chain approach</i>
<i>Coffee Break (10:30-10:45)</i>	
10:45-12:15	Lesson number 16 Lecturer name: <i>Mario Zečić, MBA, Holcim Croatia</i> Lecture title: <i>Doing business in cement industry according to UN Global Goals for Sustainable Development</i> Keywords: <i>UN global goals, reduction of CO₂ emissions, more renewable energy, harnessing innovation's power</i>
12:15 - 13	Light lunch
<i>Afternoon session</i>	
13-14:45	Case study work in groups and presentations
<i>Coffee Break (14:45-15:00)</i>	
15:00	Closing Ceremony

SATURDAY (19.10.2019.)	
7:30-8:30	Breakfast
DEPARTURE	