WEDNESDAY (20.10.2021.) – DAY 1st Main challenges and needs in innovative mineral exploration and robotization	
Morning session	
7:30-8:30	Breakfast
9:00-10:00	Check-in and registration
10:00 – 10:30	Welcome drink and snacks
10:30 – 11:00	Opening ceremony
11:00-11:45	Lecture D1U1 General (EU) policy framework for need of innovative methods in mineral exploration ***Lecturer****: Assoc. Prof. Ferenc Madai* ***Affiliation****: University of Miskolc - Faculty of Earth Science and Engineering, Institute of Mineralogy and Petrology*
Coffee break (11:45-12:00)	
12:00-13:10	Lecture D1U2, Part 1st Innovative solutions for and challenges in underwater spaces: sensor development, robotization ***Lecturer name****: Richárd Z. Papp* ***Affiliation****: University of Miskolc / UNEXMIN Georobotics Ltd.*
Lunch break (13:10-14:10)	
Afternoon session	
14:10-15:30	Lecture D1U2, Part 2nd Innovative solutions for and challenges in underwater spaces: sensor development, robotization ***Lecturer name****: Richárd Z. Papp* ***Affiliation****: University of Miskolc / UNEXMIN Georobotics Ltd.*
Coffee break (15:30 -15:45)	
15:45-17:15	Lecture D1U3 Case studies: exploration of flooded underground spaces, the UNEXMIN-UNEXUP story, sea-floor exploration ***Lecturer name****: Assoc. Prof. Norbert Zajzon* ***Affiliation****: University of Miskolc - Faculty of Earth Science and Engineering, Institute of Mineralogy and Petrology*
17:30-19:00	City tour
19:00	Welcome Dinner

Supported by
Co-funded by the European Union

THURSDAY (21.10.2021.) – DAY 2nd Remote-sensing- and sensor-based techniques and their application in the construction of 3D models	
Morning session	
7:30-8:30	Breakfast
9:00-10:10	Lecture D2U1, Part 1st Review of new analytical methodologies in exploration geochemistry ***Lecturer name**: PhD. István Márton* ***Affiliation**: Stockwork Geoconsulting Ltd / Babeş–Bolyai University*
Coffee break (10:10-10:20)	
10:20-11:30	Lecture D2U1, Part 2nd Geochemical vectors in mineral exploration: integration, interpretation and modelling of high-precision multielement and hyperspectral datasets ***Lecturer name**: PhD. István Márton* ***Affiliation**: Stockwork Geoconsulting Ltd / Babeş–Bolyai University*
Coffee break (11:30-11:45)	
11:45-13:15	Lecture D2U2, Part 1st Applications in modern geochemical exploration by using systematic sampling protocols, portable sensor-based devices, and remote sensing datasets; case study 1: targeting for Cu-Au epithermal system in remote areas ***Lecturer name**: PhD. István Márton* ***Affiliation**: Stockwork Geoconsulting Ltd / Babeş–Bolyai University*
Lunch break (13:15-14:15)	
Afternoon session	
14:15-15:25	Lecture D2U2, Part 2nd Applications in modern geochemical exploration by using surface and drill hole multielement and spectral datasets; case study 2: 3D data integration and vectoring for high-grade ore zones in porphyry Cu-Au-Mo systems. ***Lecturer name**: PhD. István Márton* ***Affiliation**: Stockwork Geoconsulting Ltd / Babeş–Bolyai University*
Coffee break (15:25-15:40)	
15:40-16:40	Practical demo D2U3, Part 1st Demonstration on portable geochemical devices and UAV-based remote sensing data acquisition and integration in 3D models ***Lecturer name**: Boglárka Anna Topa, Richárd Z. Papp* ***Affiliation**: University of Miskolc / UNEXMIN Georobotics Ltd.*
Coffee break (16:40-16:50)	
16:50-17:50	Practical demo D2U3, Part 2nd Demonstration on portable geochemical devices and UAV-based remote sensing data acquisition and integration in 3D models ***Lecturer name**: Boglárka Anna Topa, Richárd Z. Papp* ***Affiliation**: University of Miskolc / UNEXMIN Georobotics Ltd.*

Supported by
Co-funded by the European Union

FRIDAY (22.10.2021.) – DAY 3rd Advanced geophysical data processing and geostatistical methods and their innovative applications for mineral exploration	
Morning session	
7:30-8:30	Breakfast
9:00-10:30	Lecture D3U1 Advanced statistical analysis of multivariate (big) datasets ***Lecturer name**: Prof. Norbert Szabo* ***Affiliation:** University of Miskolc, Faculty of Earth Science and Engineering, Institute of Geophysics and Geoinformatics*
Coffee break (10:30-10:45)	
10:45-12:15	Lecture D3U2 Inversion-based modelling for the interpretation of gravity, magnetic and geoelectric datasets ***Lecturer name**: Endre Nádasi* ***Affiliation:** University of Miskolc*
Lunch break (12:15-13:00) (Shorter)	
Afternoon session	
13:00-14:30	Lecture D3U3 Shallow geophysical investigations by combining seismic, geoelectric and direct-push logging methods. Near-surface structures ***Lecturer name**: Prof. Norbert Szabo* ***Affiliation:** University of Miskolc, Faculty of Earth Science and Engineering, Institute of Geophysics and Geoinformatics*
	Coffee break (14:30 – 14:40)
14:40-15:00	EIT RawMaterials activities in other regions
15:00-15:30	*Closing Ceremony*
18:00 Dinner	

Supported by
Co-funded by the European Union