



Scientific programme

Applied Geophysics 2019 27 – 28 June 2019, Ostrava

Thursday, June 27, 2019

10:00 – 11:00 **Presentation of participants and coffee** – Nová aula VŠB-TU Ostrava (NA4)

11:00 – 11:15 OPENING CEREMONY – Zdeněk Kaláb, Zenon Pilecki

11:15 – 12:30 SESSION 1

Chairman: Zenon Pilecki

11:15 – 11:45

Invited Lecture

Pavel Pospíšil, Naďa Rapantová, Eva Hruběšová

THE IMPORTANCE OF ACCURATE ASSESSMENT OF THE ROCK MASS IN TERMS OF LANDSLIDE ACTIVATION

11:45 – 12:00

Zdeněk Kaláb, Martin Stolárik

VIBRATION RISK IN GEOTECHNICAL ENGINEERING

12:00 – 12:15

Bogdan Mihai Niculescu, Constantin Laurian Ciupercă, Gina Andrei

STRUCTURAL AND SEDIMENTOLOGICAL ANALYSIS OF THE PLIOCENE – LATE MIOCENE DEPOSITS FROM THE ROMANIAN BLACK SEA OFFSHORE BASED ON BOREHOLE ELECTRICAL IMAGING

12:15 – 12:30

Markéta Camfrlová

ASSESSMENT OF THE EVOLUTION OF THE ROCK ENVIRONMENT AND CLIMATE CHANGES FOR THE LONG-TERM SAFETY OF THE RADIOACTIVE WASTE REPOSITORY IN THE CZECH REPUBLIC

12:30 – 12:45

Mateusz Zareba, Jerzy Zając, Tomasz Danek

INCLUDING EFFECTS OF NEAR-SURFACE ZONE ANISOTROPY FOR SEISMIC STATICS CALCULATIONS - CARPATHIAN INNER-MOUNTAIN BASIN CASE STUDY

12:45 – 13:45 Lunch – Nová aula VŠB-TU Ostrava (NA5)

13:45 – 15:15 SESSION 2

Chairman: Pavel Pospíšil

13:45 – 14:00

Zenon Pilecki

APPLICATION OF GEOPHYSICAL METHODS FOR THE TREATMENT OF SUBSURFACE OF HIGHWAY JUNCTION PIEKARY IN SHALLOW MINING TERRAIN

14:00 – 14:15

Tomasz Danek, Andrzej Leśniak, Katarzyna Miernik, Elżbieta Śledź

PARETO JOINT INVERSION OF 2D MAGNETOMETRIC AND GRAVITY DATA - SYNTHETIC STUDY

14:15 – 14:30

Sandra Herber, Iwona Stan-Kłeczek

APPLIED OF SEISMIC METHODS TO STUDY OF FRACTURING

14:30 – 14:40

Krzysztof Krawiec, Paulina Harba

COMPARISON OF S-WAVE VELOCITY FIELD FROM SEISMIC INTERFEROMETRY AND DEFORMATION FIELD FROM NUMERICAL CALCULATIONS FOR LANDSLIDE IN CARPATHIAN FLYSCH

14:40 – 14:50

Dariusz Chlebowski, Zbigniew Burtan

IDENTIFYING THE AREAS OF STRESS CONCENTRATION WITHIN THE ROOF STRATA BASED ON SEISMIC TOMOGRAPHY AND ANALYTICAL MODELLING DATA – A CASE STUDY

14:50 – 15:00

Constantin Laurian Ciupercă, Bogdan Mihai Niculescu,

CHARACTERIZATION OF GEOLOGICAL DISCONTINUITIES BY USING GEOPHYSICAL WELL LOGGING DATA

15:00 – 15:15

Mateusz Zareba, Jerzy Zając, Tomasz Danek

SOME STATISTICAL CONSIDERATION OF AZIMUTH AND INCLINATION ANGLES DETERMINATION BASED ON WALK - AWAY VSP DATA

15:15 – 15:30 Coffee break – Nová aula VŠB-TU Ostrava (NA5)

15:30 – 16:45 SESSION 3

Chairman: Zdeněk Kaláb

15:30 – 15:40

Raluca Maftai, Alexandru Angheli, Ovidiu Avram, Emil Rusu, Constantina Filipciuc, Elena Tudor, Antonio Ulmeanu, Ioan Scutelnicu, Irina Stoian
ELECTRICAL RESISTIVITY MEASUREMENTS USED FOR THE DESIGN OF TRANSPORTS INFRASTRUCTURE IN ROMANIA – CASE STUDIES

15:40 – 15:50

Anna Barbara Gogolewska, Małgorzata Kowalczyk
ASSESSMENT OF SEISMICITY AND ACTIVE ROCK BURST PREVENTION IN A DEEP COPPER ORE MINE IN POLAND

15:50 – 16:00

Bartosz Gierlach, Tomasz Danek, Ayiaz Kaderali
VSP DATA INVERSION FOR VERTICAL VELOCITY GRADIENT AND ELLIPTICAL ANISOTROPY MODEL

16:00 – 16:10

Zbigniew Szreder, Jakub Kokowski, Elzbieta Pilecka
REFERENCE P-WAVE VELOCITY IN COAL SEAMS AT GREAT DEPTHS IN JASTRZEBIE COAL MINE

16:10 – 16:20

Lukasz Jasinski, Marcin Dabrowski
FIELD GAMMA-RAY SPECTROMETRY FOR ESTIMATION OF RADIOGENIC HEAT PRODUCTION FROM GRANITOID ROCKS

16:20 – 16:30

Sylwia Tomecka-Suchoń, Paweł Pysz, Akinniy Akinsunmade, Henryk Marcak
SPECTRAL DECOMPOSITION OF GPR IMAGES FOR DETECTION OF ZONES WITH INCREASED COMPACTION

16:30 – 16:40

Akinniy Akinsunmade, Wojciech Klityński, Paweł Pysz, Sylwia Tomecka-Suchoń
3D GPR AND GCM MEASUREMENTS FOR RESEARCH OF FLOOD EMBANKMENTS

16.40 – 16.45 Discussion

19:00 – 24:00 SOCIAL EVENING – Nová aula VŠB-TU Ostrava (NA5)

Friday, June 28, 2019

8:30 – 9:00 Morning coffee – Nová aula VŠB-TU Ostrava (NA5)

9:00 – 10:30 SESSION 4

Chairman: Józef Dubiński

9:00 – 9:45

Invited Lecture

Józef Dubiński, Krystyna Stec

ASSESSMENT OF THE GEOPHYSICAL AND GEOMECHANICAL FORECASTS FOR SEISMIC ENERGY OF MINING TREMORS OCCURRING IN THE USCB.

9:45 – 10:00

Eva Hruběšová, Lukáš Ďuriš, Petr Čada, Miroslav Frantes

NUMERICAL SIMULATION OF THE ANTI-EXPLOSION MINING DAM EXPOSED TO DYNAMIC LOAD

10:00 – 10:15

Paweł Ficek, Marek Rotkegel

LOAD CAPACITY OF STEEL ARCHES WITH SHOTCRETE COATING

10:15 – 10:30

Łukasz Wojtecki, Adam Mirek, Grażyna Dzik

EDGES OF OVERLYING SEAMS AS A FACTOR RESPONSIBLE FOR STRONG MINING TREMORS OCCURRENCE DURING UNDERGROUND HARD COAL EXTRACTION IN THE LIGHT OF SEISMIC MOMENT TENSOR INVERSION METHOD

10:30 – 10:45 Coffee break – Nová aula VŠB-TU Ostrava (NA5)

10:45 – 11:40 SESSION 5

Chairman: Eva Hrubešová

10:45 – 10:55

Aleksandra Kasztelewicz, Barbara Tomaszewska

THE ASSESSING OF THE QUALITY OF GEOTHERMAL RESERVOIRS ON THE EXAMPLE OF THE LOWER JURASSIC AQUIFER IN THE MOGILNO-ŁÓDŹ TROUGH (POLISH LOWLANDS)

10:55 – 11:05

Martin Závacký, Tomáš Majda, Iva Rozsypalová, Jan Štefaňák, Zbyněk Keršner

MORAVIAN GREYWACKE FROM KOBEŘICE – EVALUATION OF FRACTURE, STRENGTH AND DEFORMABILITY PROPERTIES

11:05 – 11:15

Tommy Cuadros León, Pavel Pospíšil

GEOTECHNICAL MONITORING AND DETERMINATION OF LANDSLIDE MITIGATION EFFICIENCY IN KOZINEC (DOUBRAVA)

11:15 – 11:25

Bondarenko V., Kovalevska I., Husiev O., Snihur V. and Saleev I.

CONCEPTION OF EXTRACTION MINE WORKINGS REUSE WITH APPLICATION OF RESOURCE-SAVING BOLTING SYSTEMS

11:25 – 11:40 Discussion

11:40 CLOSING CEREMONY – Zdeněk Kaláb, Zenon Pilecki

12:00 Lunch – Nová aula VŠB-TU Ostrava (NA5)

Main conference sponsor

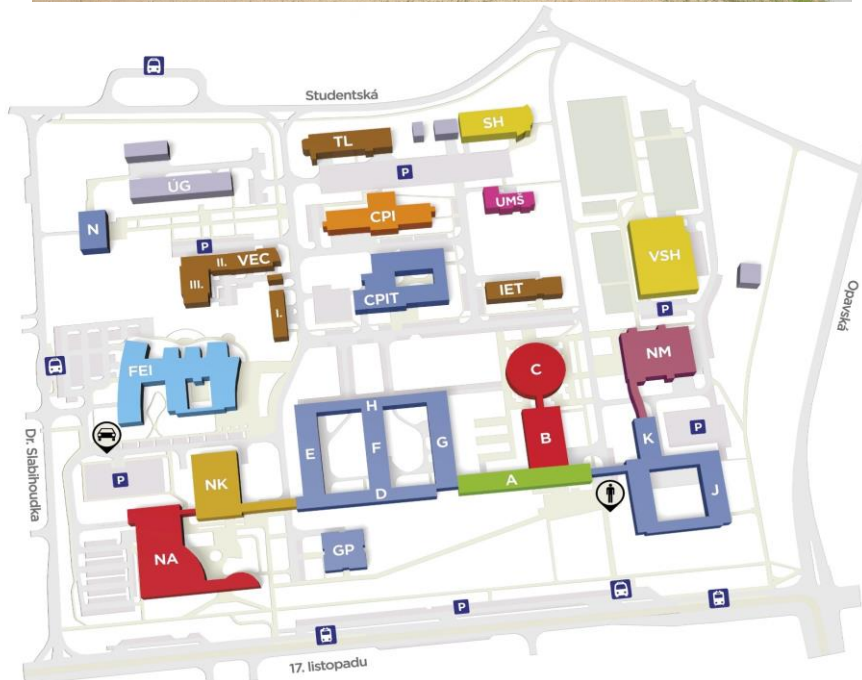


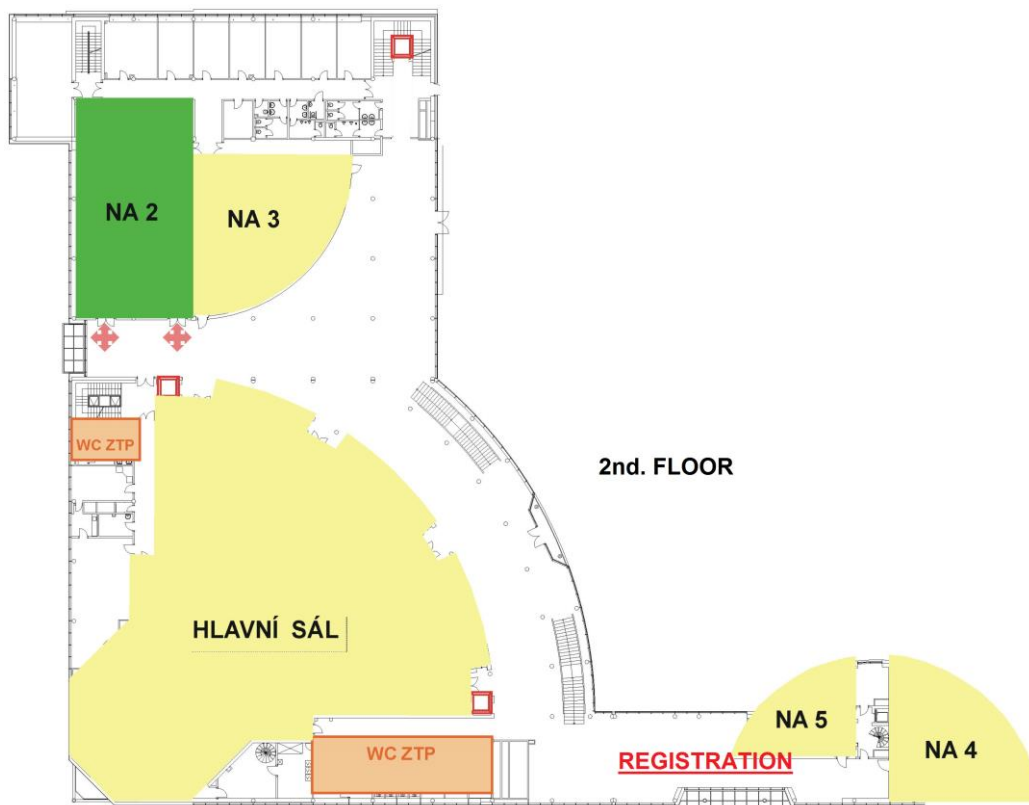
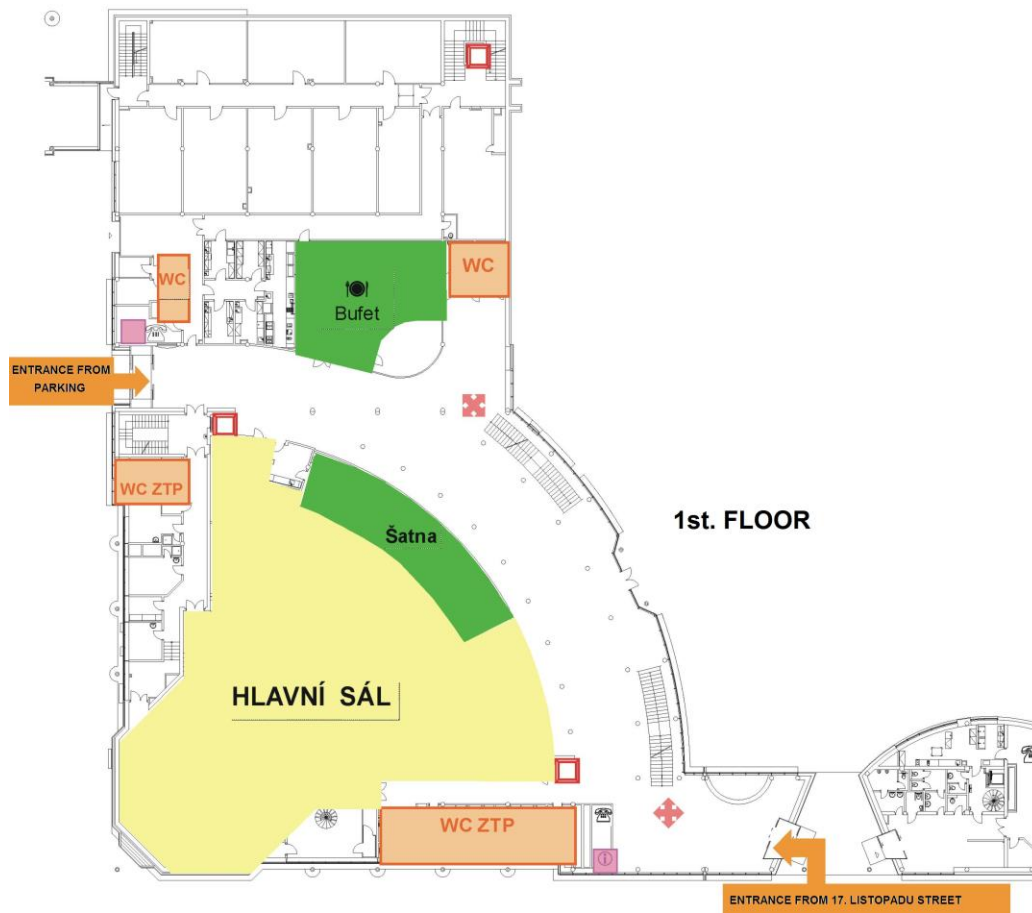
Conference venue



The Conference will be held in Main Auditorium (NA) of VŠB-TU Ostrava in rooms NA4 and NA5.

Vysoká škola báňská – Technická univerzita Ostrava
17. listopadu 2172/15
708 00 Ostrava-Poruba

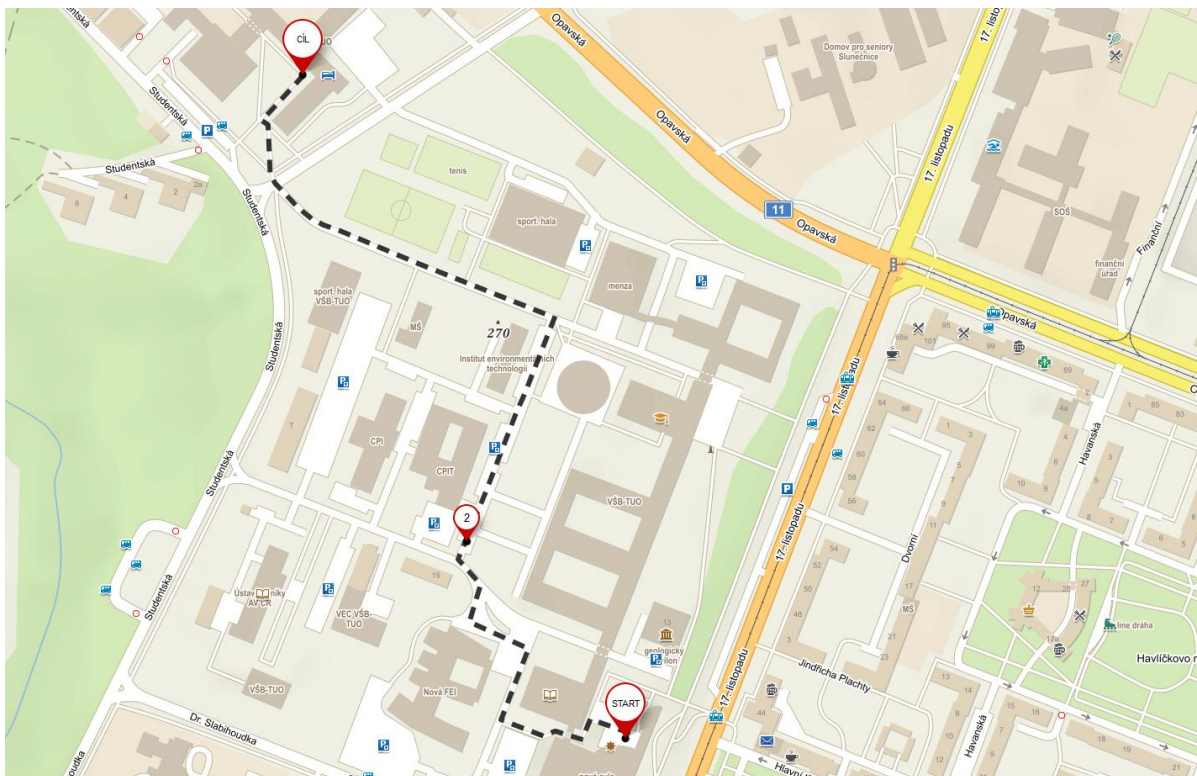




Accommodation

Hotel VŠB Garni* (building A)**
Studentská 1770,
Ostrava – Poruba, 700 32

Rooms are reserved for all conference participants
(1 resp. 2 bed rooms, 700 CZK/night resp. 880 CZK/night including breakfast)



Main Auditorium (NA) - Hotel VŠB Garni 1000 m