



НАУЧНО-ТЕХНИЧЕСКИ СЪЮЗ ПО МИННО ДЕЛО, ГЕОЛОГИЯ И МЕТАЛУРГИЯ
SCIENTIFIC AND TECHNICAL UNION OF MINING, GEOLOGY AND METALLURGY
НАУЧНО-ТЕХНИЧЕСКИЙ СОЮЗ ПО ГОРНОМУ ДЕЛУ, ГЕОЛОГИИ И МЕТАЛЛУРГИИ



**XVI Международна конференция
по открит и подводен добив на полезни изкопаеми**

**XVI International Conference
of the Open and Underwater Mining of Minerals**

**XVI Международная конференция
по открытой и подводной добыче полезных ископаемых**

6 – 10 September 2021

Resort “St. St. Constantine and Elena”, Astor Garden Hotel
Varna, Bulgaria

Ladies and Gentlemen,

Dear colleagues,

On behalf of the National Organizing Committee, I am inviting you to participate in the **XVI International Conference of the Open and Underwater Mining of Minerals**, which will be held from 6 to 10 September 2021 at Astor Garden Hotel, the resort "St. St. Constantine and Elena", Varna, Bulgaria.

35 years have passed since the first conference on open pit mining and slope sustainability in the town of Panagyurishte in 1986, which is proof of the need to hold this traditional scientific forum. With the inclusion of the thematic area "Underwater mining" the scope of the conference is expanded.

This forum is a platform for the exchange of experience and knowledge of experts, scientists and businessmen from around the world, which allows discussions to be held, presenting innovations, the latest technological developments and production methods in the mining industry and construction. In this context, in addition to discussing scientific and technical issues, the main goal of the conference is to create a basis for new opportunities for the development of science and business.

We hope that the thematic areas structured by the National Editorial Board will arouse your interest and provoke you for new searches and solutions to the problems.

We look forward to meeting you at the **XVI International Conference of the Open and Underwater Mining of Minerals** in Varna, Bulgaria!

Chairman:



Dr. Eng. Kremena Dedelyanova

WITH COOPERATION

- Ministry of Energy in Bulgaria
- Ministry of Economy in Bulgaria
- Ministry of Environment and Water in Bulgaria

CO-ORGANIZERS

- Federation of the scientific engineering unions in Bulgaria
- University of mining and geology "St. Ivan Rilski"
- Bulgarian chamber of mining and geology
- University of Architecture, Civil Engineering and Geodesy
- Higher School of Civil Engineering "Lyuben Karavelov"
- University of Transport "Todor Kableshkov"
- Bulgarian construction chamber
- Association "Bulgarian coal mining"

PARTNERS

- "Andezit" Ltd.
- "Andela" JSC
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- "Minstroy Holding" JSC
- "Marica Iztok mines" JSC
- "Niproruda" JSC
- "Sanrock" Ltd.
- Regional Organization of the Scientific and Technical Unions - Pernik
- "Holicim Karierni Materiali" AD

WITH MEDIA PARTNERS

- Journal "Mining and geology"
- Journal "Geology and mineral resources"
- Newspaper "Rudnichar"
- Publishing house "Ore and metals"
- Newspaper "Science and society"

Organizing committee

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Chairman, Scientific and technical union of mining, geology and metallurgy

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Coordinator:

Dr. Julian Dimitrov

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Dimitar Tzotzorkov

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Scientific and technical union of mining, geology and metallurgy

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"Geotechmin" Ltd

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"Andezit" Ltd.

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Director of Production and Technical Matters, Maritza Iztok Mines JSC

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Thematic topics

1. Innovations in the construction and operation of opencast mines and quarries.
2. Modern technologies and facilities in underwater mining of minerals.
3. Combination of open pit and underground mining.
4. Drilling and blasting activities and safety techniques for open mining of minerals.
5. Drainage and stability and consolidation of the slopes in mining and construction. Process management and best practices.
6. Quality management. Economic efficiency in open and underwater mining.
7. Protection and reclamation of environment during and after mining activities. Circular economy.
8. Information technologies in geological and mining activities.
9. Innovations in electrification, automation, mechanization and repair.
10. Advanced technologies in mineral processing and leaching.
11. Risk management and safe working conditions in mining and construction. Education and qualification.
12. Mining legislation.

Preliminary Program

6 September (Monday)

10⁰⁰ - 19⁰⁰ Registration (on the lobby of the Hotel)

7 September (Tuesday)

10⁰⁰ - 10³⁰ Conference opening ceremony. Greetings.

10³⁰ - 13³⁰ Plenary sessions

13³⁰ - 15⁰⁰ Lunch break

15⁰⁰ - 17³⁰ Plenary sessions. Discussions.

19³⁰ - 22⁰⁰ Welcome cocktail for conference participants.

8 September (Wednesday)

09³⁰ - 13³⁰ Plenary sessions

13³⁰ - 15⁰⁰ Lunch break

15⁰⁰ - 17³⁰ Plenary sessions. Discussions.

9 September (Thursday)

09³⁰ - 13³⁰ Plenary sessions

13³⁰ - 15⁰⁰ Lunch break

15⁰⁰ - 17³⁰ Plenary sessions. Discussions. Closing ceremony.

19³⁰ Gala dinner for conference participants.

10 September (Friday)

07⁰⁰ - 20⁰⁰ Production excursion /open by request/

* The excursion will be held in minimum 15 participants.

Instruction to authors

Abstracts

- Abstracts must be in English and limited to 100 words. Text must be in Arial Narrow, 12 pts, Italic. **Deadline for submission of the abstracts – 20. 04. 2021**

Papers

- **Volume** – up to 8 standard pages, A4 Format (210x297mm), including figures, tables and references with margins: top – 30 mm, bottom, left and right – 20 mm. Papers will be at one of official languages – **Bulgarian, Russian, English**

- Font of main text – Arial Narrow, 12 pts., line spacing Single Space.
 - Title - centered, bold capital letters, 12 pts. Below the title follows name of author/s, address, affiliation, position and E-mail address.
 - Subtitles in text – centred and underlined;
 - Figures – black-and white computer graphics placed in the respective position within the text field.
 - Color figures and images are not accepted!
 - Tables – numbered on the right (font size 10 pts, italic).
 - Formulae – numbered on the right of the formula (in brackets).
 - Measurement units – according to the International System of Units (SI);
 - References – the cited references are numbered in alphabetical order and enclosed in brackets [];
- Deadline for submission of papers – 1. 07. 2021
 Author participation – no more 2 scientific papers.
 Papers must be send by e-mail in *.DOC format.
 Authors must to point the topic of the paper.
- Duration of the paper presentation:
- Plenary paper – 15 min.
 - Oral presentation – 12 min

Venue and duration of the conference

The conference will be held at the Astor Garden Hotel, Resort St. St Constantine and Elena, Varna, Bulgaria in the period 6 - 10 September 2021. The conference center is located 10 km north of the city of Varna and provides all opportunities for conferences, meetings, business and holidays.

Official languages

The official languages of the conference will be Bulgarian, English and Russian. Simultaneous translation will be provided. The papers will be published in the Proceedings.

Registration fee (EURO)

	Before 1 August 2021	After 1 August 2021
Author	250	-
Participant without paper	350	400
Exhibitor	350	400
Student, PhD student	100	-

The registration fee includes admission to plenary sessions and exhibition, materials of the conference including Proceedings volume, Welcome cocktail, coffee and drinks during the coffee breaks, Gala dinner.

Students and PhD students not entitled to receive the Proceedings volume.

In the conference proceedings will be published only papers with paid registration fee until 1 August 2021.

Exhibition and advertising

During the conference companies and organizations can advertise their products and activities at an exhibition at the Astor Garden Hotel. The fee for the exhibition is 150 EURO/m² (minimum exhibition area - 2 m²). Exhibitors pay Exhibitor registration fee also.

Advertising during the conference is possible in the form of company presentation – price 80 EURO/min.

Advertising in the Proceedings volume is possible at the cost of 1000 EURO - Color/Format A4.

Hotel accommodation (Prices in BGN)

Participants will be accommodated in the Astor Garden Hotel, Resort St. St Constantine and Elena, Varna, Bulgaria. The accommodation fees in BGN are following:

Hotel	Single room	Bed in double room
Astor Garden Hotel ***** Park	129	92
Astor Garden Hotel ***** Sea	140	102

The accommodation is on the base Ultra All Inclusive.

Booking of the room in the hotel will be provided after receiving of the filled registration form on the e-mail address: mdgm@fnts.bg until 15 August 2021.

Payment will be made in the hotel reception on the registration.

Payment

Bank transfer of registration fee at the following accounts.

Scientific and technical union of mining, geology and metallurgy
XVI International conference of the open and underwater mining of minerals
UniCredit Bulbank
1000, Sofia, BULGARIA
BIC - UNCRBGSF

* EURO – BG55UNCR76301422597370

Bank transfer charges and bank commission are payable by the participants.

Important Dates

Deadline for receipt of abstracts	20. 04. 2021
Deadline for receipt of paper	1. 07. 2021
Deadline for receipt of filled registration form	15. 08. 2021

Registration and Address for correspondence

The registration form and a copy from the bank transfer should be sent to the Organizing Committee not later than 15. 08. 2021 to the following address:

SCIENTIFIC AND TECHNICAL UNION OF MINING, GEOLOGY AND METALLURGY

108, G. S. Rakovski Str.

1000 Sofia, BULGARIA

Phone/ Fax: ++ 359 2 986-13-79

E-mail: mdgm@fnts.bg, nts_mdgm@abv.bg

Dr. Eng. Kremena Dedelyanova – Chairman

Dr. Krassimira Arsova – Scientific and technical activities

Web-site: openmineconf-mdgm.org

REGISTRATION FORM

XVI INTERNATIONAL CONFERENCE OF THE OPEN AND UNDERWATER MINING OF MINERALS

6 – 10 September 2021
Astor Garden Hotel
Resort “St. St. Constantine and Elena”,
Varna, BULGARIA

Title, name and family name

.....

Address

.....

Phone:Fax:E-mail:.....

I wish to participate: with a paper without a paper; will participate in edition with impact factor;

with firm presentation with an advertisement in the proceedings

as an exhibitor on sq. m area

I use: Bulgarian English Russian

I will accept accommodation in hotel for 6, 7, 8 and 9 September 2021

Astor Garden Hotel Park single room, double room ;

Astor Garden Hotel Sea single room, double room.

I have transferred the following amounts:

..... EURO / Registration fee

..... EURO / for advertisement

..... EURO / for exhibition on m²

..... EURO / for firm presentation

Total: EURO

The transfer is made on the address:

Scientific and technical union of mining, geology and metallurgy

UniCredit Bulbank

1000, Sofia, BULGARIA

BIC - UNCRBGSF

* EURO: IBAN – BG55UNCR76301422597370

DATE

SIGNATURE:.....

НАУЧНО-ТЕХНИЧЕСКИ СЪЮЗ
ПО МИННО ДЕЛО,
ГЕОЛОГИЯ И МЕТАЛУРГИЯ



SCIENTIFIC AND TECHNICAL
UNION OF MINING,
GEOLOGY AND METALLURGY

ФЕДЕРАЦИЯ НА
НАУЧНО-ТЕХНИЧЕСКИТЕ
СЪЮЗИ В БЪЛГАРИЯ



FEDERATION
OF THE SCIENTIFIC ENGINEERING
UNIONS IN BULGARIA

