

Ladies and Gentlemen,

Dear colleagues,

On behalf of the Organizing Committee, I am inviting you to participate in the **XVII International Conference of the Open and Underwater Mining of Minerals**, which will be held from 18 to 22 September 2023 at Astor Garden Hotel, Sts. Constantine and Helena Resort, Varna, Bulgaria.

This conference has been held for more than 35 years, the first of which was held in 1986 as a conference on open mining of minerals and slope stability in Panagyurishte with the initiator and its doyen Prof. DSc Eng. Stoyan Hristov, and later the underwater mining topic was added. With the participation of a significant number of colleagues from the Balkan region, Europe and Russia, the conference became international.

In connection with the long-standing cooperation and successful work with the University of Mining and Geology "St. Ivan Rilski" and the University of Chemical Technology and Metallurgy, Sofia, we dedicate this year's forum to the 70th anniversary of the establishment of these two universities.

The high activity of scientists and specialists and the interest in the conference are proof of its authority over the years. This forum has become a platform for discussions related to the latest technological developments and production practices in the mining industry. Thematic topics cover all issues related to exploitation, technology, economic efficiency, information technology, ecology, training and legislation in the field of open and underwater mining and construction. During the conference, you will have the opportunity to discuss scientific and scientific-practical issues, as well as create new contacts and exchange ideas for business development.

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

Chairman
Assoc. Prof. Dr. Eng. Kremena Dedelyanova

WITH COOPERATION

- Ministry of Energy
- 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"
- University of chemical technology and metallurgy
- 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
- "Assarel-Medet" JSC
- "Atlas Copco Bulgaria" Ltd
- "BT engineering" Ltd.
- "Vatiya Holding" JSC
- "Geostroy" JSC
- "Geotechmin" Ltd.
- "Geotrading" JSC
- "Dundee Precious Metals Krumovgrad" EAD
- "Dundee Precious Metals Chelopech" EAD
- "Ellatzite-Med" JSC
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- "Zlatna Panega Cement" JSC
- "Kaolin" JSC
- MDZ "Balsha" JSC
- "Minproekt" JSC
- "Minstroy Holding" JSC
- "Mini Maritsa-Iztok" EAD
- "Niproruda" JSC
- "Sanrock" Ltd.
- "Holcim 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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Assoc. Prof. Dr. Eng. Kremena Dedelyanova Chairman, Scientific and technical union of mining, geology and metallurgy

Honorary Chairman:

Prof. DSc Eng. Tzolo Voutov Honorary chairman, Scientific and technical union of mining, geology and metallurgy

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Dr. Eng. Nikolay Milev University of architecture, civil engineering and geodesy

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MSc Eng. Dimitar Angelov Executive director, "Kaolin" JSC
Dimitar Tzotzorkov Chairman of the Supervisory Board, "Assarel-Medet" JSC
MSc Eng. Dimitar Tzotzorkov Manager, "Bulteh" Ltd.
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Prof. Dr. Eng. Emil Mihaylov Dean, University of chemical technology and metallurgy
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MSc Eng. Ivan Bogdanov Executive director, MDZ "Balsha" JSC
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Assoc. Prof. Dr. Ivan Mitev Executive director, Bulgarian chamber of mining and geology
Prof. Dr. Eng. Iliya Garkov Senior Vice-President, European Operations, Dundee Precious Metals
Iliyan Rangelov Manager, "Belaz-Sofia" Ltd.
Assoc. Prof. Eng. Kiril Chobanov "Geotechmin" Ltd
MSc. Eng. Kostadin Naydenov "Geotechmin" Ltd
Prof. DSc Eng. Martin Bozhinov Vice-rector, University of chemical technology and metallurgy
MSc Eng. Nedelcho Bonev Executive director, "Minstroy Holding" JSC
Assoc. Prof. Dr. Eng. Nikola Dobrev "Holding KCM 2000" JSC
MSc Eng. Rumen Bikov Executive director, MINPROEKT" JSC
Prof. Dr. Eng. Stanislav Topalov Chairman, Association "Bulgarian coal mining"
Dr. Eng. Todor Tzonkov Head Engineer, "Andezit" Ltd.
MSc Eng. Yasen Chaushev Director of Production and Technical Matters, Maritza Iztok Mines JSC

International Scientific Committee

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MSc Eng. Milen Manov
Prof. Dr. Eng. Chavdar Kolev

Thematic topics

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

Preliminary Program

18 September (Monday)

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

19 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.

20 September (Wednesday)

09³⁰ - 13³⁰ Plenary sessions

13³⁰ - 15⁰⁰ Lunch break

15⁰⁰ - 17³⁰ Plenary sessions. Discussions.

21 September (Thursday)

09³⁰ - 13³⁰ Plenary sessions

13³⁰ - 15⁰⁰ Lunch break

15⁰⁰ - 17³⁰ Plenary sessions. Discussions. Closing ceremony.

19³⁰ Gala dinner for conference participants.

22 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 –1. 05. 2023 r.

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. 2023 r.**
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, Sts. Constantine and Helena Resort, Varna, Bulgaria in the period 18 - 22 September 2023. 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**. The papers will be published in the Proceedings in one of these three languages.

Registration fee (EURO)

	Before 1 August 2023	After 1 August 2023
Author	300	-
Participant without paper	400	450
Exhibitor	400	450
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 2023.

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.

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

Hotel accommodation (Prices in BGN)

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

Hotel	Single room	Double room
Astor Garden Hotel ***** Park	136	193
Astor Garden Hotel ***** Sea	147	214

Prices are in BGN, per room, per day including 9% VAT, tourist tax and insurance.

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 2023.

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

Payment

Bank transfer of registration fee at the following account:

**Scientific and technical union of mining, geology and metallurgy
XVII 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	1. 05. 2023
Deadline for receipt of paper	1. 07. 2023
Deadline for receipt of filled registration form	15. 08. 2023

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 August 2023 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
Assoc. Prof. Dr. Eng. Kremena Dedelyanova – Chairman
Dr. Krassimira Arsova – Scientific and technical activities
Web-site: <http://openmineconf.mdgm.org/>**

REGISTRATION FORM

XVII INTERNATIONAL CONFERENCE OF THE OPEN AND UNDERWATER MINING OF MINERALS

18 – 22 September 2023
Astor Garden Hotel,
Sts. Constantine and Helena Resort,
Varna, BULGARIA

Title, name and family name

.....

Address

.....

Phone: E-mail:.....

I wish to participate: with a paper without a paper;

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 18, 19, 20 и 21 September 2023 in

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:.....