

НАУЧНО-ТЕХНИЧЕСКИ СЪЮЗ  
ПО МИННО ДЕЛО, ГЕОЛОГИЯ  
И МЕТАЛУРГИЯ



SCIENTIFIC AND TECHNICAL  
UNION OF MINING, GEOLOGY  
AND METALLURGY



МИНСТРОЙ ХОЛДИНГ АД  
MINSTROY HOLDING JSCo

# ПОКАНА INVITATION

Девета национална научно-техническа конференция с  
международно участие

Ninth National Scientific and Technical Conference  
with International Participation

Технологии и практики  
при подземен добив и минно  
строителство

Technologies and Practices  
in Underground Mining and Mine  
Construction

7 –10 октомври 2024  
СПА комплекс Орфей  
гр. Девин

7–10 October 2024  
Orpheus SPA Hotel  
Devin, Bulgaria

**Dear Ladies and Gentlemen**

**Dear colleagues,**

We are pleased to invite you on behalf of the Organizing Committee to participate in the **Ninth National Scientific and Technical Conference with International Participation “Technologies and Practices in Underground Mining and Mine Construction”**, which will be held on 7 - 10 October 2024 in SPA complex "Orpheus", Devin, Bulgaria.

Organizing of this traditional scientific forum for over 16 years proves its importance and significance for the mineral industry.

At the conference, you will have the opportunity to inform about the achievements in science as well as with innovative practical solutions applied in industry.

We hope that the thematic topics will arouse your interest, you will present reports of scientific and practical importance, which will provoke discussions on finding appropriate solutions in underground mining and mining construction.

Your participation will contribute to the success of the Ninth National Scientific and Technical Conference with International Participation “Technologies and Practices in Underground Mining and Mine Construction” and we hope to create new business and personal contacts useful for you.

We are waiting for you at the SPA Hotel "Orpheus" in the town of Devin, which offers wonderful conditions!

Welcome!

**Chairpersons of the Organizing committee:**

**Prof. DSc Eng. Nikolay Valkanov**

**Assoc.Prof.Dr.Eng.Kremena Dedelyanova**



**MAIN ORGANIZERS**  
**SCIENTIFIC AND TECHNICAL UNION OF MINING, GEOLOGY AND METALLURGI**



**"MINSTROY HOLDING" JSCo**

**CO-ORGANIZERS**



**Federation of the scientific engineering unions in Bulgaria**  
**Bulgarian chamber of mining and geology**  
**University of mining and geology "St. Ivan Rilski"**  
**Association of explosive engineers in Bulgaria**

Ministry of Energy  
Ministry of Economy and Industry  
Ministry of Environment and Water  
"Asarel Medet JSCo.  
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"Geotechmin" Ltd.  
"Gips" JSCo.  
"Gorubso – Madan" JSCo.  
Dundee Precious Metals Chelopech EAD  
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"Ellatzite Med" JSCo.  
"Eskana Invest 96" JSCo  
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Maritza-Iztok Mines JSCo.  
"Minproekt" JSCo.  
"Niproruda" JSCo.  
"Orica Med Bulgaria" JSCo.  
"Rodopi Eco Projects" JSCo.  
"Rudmetal" JSCo.  
"Tabov engineering" JSCo.

**WITH MEDIA PARTNERS**

Journal „Mining and Geology“  
Journal „Geology and Mineral Resources“  
Newspaper „Science and society“  
Newspaper „Rudnichar“

## ORGANIZING COMMITTEE

Chairpersons:	Assoc. Prof. Dr. Eng. Kremena Dedelyanova Prof. DSc Eng. Nikolay Valkanov
Honorary Chairman:	Prof. DSc Eng. Tzolo Voutov
Vice-Chairmen:	Dr. Eng. Vladimir Vutov Prof. Dr. Ivaylo Koprev Prof. Dr. Slaveyko Gospodinov Prof. Dr. Iliya Garkov MSc Eng. Shteryo Shterev
Scientific Secretary:	Assoc. Prof. Dr. Petar Shishkov

## MEMBERS

MSc Eng. Boris Gizdov	„Thrace Resources” JSCo
Arch. Eng. Valentin Trashliev	"Euro Alliance engineering" JSC
Prof. DSc Valeri Mitkov	Association of explosive engineers in Bulgaria
MSc Eng. Velislav Kalchev	"Bulexportconsult" JSCo.
MSc Eng. Georgi Petrov	"Ellatzite-Med" AD
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MSc. Eng. Dancho Todorov	"Niproruda" AD
MSc. Eng. Delcho Nikolov	"Asarel-Medet" JSC
MSc. Eng. Dragomir Draganov	Bulgarian chamber of mining and geology
MSc. Eng. Elena Filipova	"Eskana Invest 96" AD
MSc. Eng. Ivan Bogdanov	MDZ "Balsha" PLC
MSc. Eng. Ivan Kojuharov	"Eurotest-control" EAD
MSc. Eng. Ivan Tabov	"Tabov engineering" JSCo.
MSc Eng. Ilza Chinkova	"Maritza-Iztok Mines" EAD
MSc Eng. Iliya Goranov	"Bulmak 2016" DOOEL, N. Macedonia
MSc Eng. Kostadin Hristov	"Minproekt" EAD
MSc. Eng. Krasimir Paskalev	"Pnevmatika - Serta" JSC
MSc. Eng. Mitko Mladenov	"Rudmetal" AD
MSc Eng. Neicho Neichev	"Lucky Invest" AD
Assoc. Prof. Dr. Nikola Dobrev	"KCM" AD
MSc Eng. Nikolay Peltekov	"Asarel-Medet" JSC
Ruja Bodurova	"Rodopi Eco Projects" EOOD
MSc Eng. Rumens Tzonev	"Holding KCM 2000" AD
MSc. Eng. Sergey Atanasov	"Gorubso – Madan" JSC
Prof. Dr. Stoyan Bratoev	"Metropolitan" JSC

## ADVISORY COUNCIL

Prof. Dr. Pavel Pavlov	– Chairman
Prof. Dr. Dimitar Anastasov	– Vice-Chairman
Prof. Dr. Krastio Dermendjiev	– Vice-Chairman
Mag. Eng. Nedelcho Bonev	– Vice-Chairman
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MSc Eng. Georgi Lisev	– Bulgaria
Prof. Dr. Georgi Mihaylov	– Bulgaria
Assoc. Prof. Dr. Zahari Dinchev	– Bulgaria
Dr. Eng. Nikolay Georgiev	– Bulgaria
Prof. Dr. Stanislav Topalov	– Bulgaria
Prof. Dr. Chavdar Kolev	– Bulgaria
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Acad. Viktor Prushak	– Belarus
Prof. Dr. Zoran Despodov	– North Macedonia
Prof. Dr. Risto Dambov	– North Macedonia
Prof. Dr. Vitomir Milic	– Serbia
Prof. Dr. Turgay Onargan	– Turkey
Assoc. Prof. Dr. Serhii Chukharev	– Ukraine

## TOPICS

1. Innovative technologies and practices in underground mining and mine construction. Mine geology.
2. Underground, tunnel and metro construction.
3. Mine survey of technological processes in underground mining, underground, tunnel and metro construction.
4. Geomechanical issues of the underground mining and construction activities.
5. Technologies and practices in blasting.
6. Labor safety. Ventilation and air conditioning.
7. Mineral processing, recycling of mineral raw materials and environmental protection.
8. Green deal. Circular economy.
9. Economic, management and social aspects of underground, mining, processing and construction activities.

## REQUIREMENTS FOR THE PAPERS

### Abstracts

- Abstracts must be in English or Russian (different from the language of the paper) and limited to 100 words. Font of the abstract must be Arial Narrow, Italic, 11 pt.

### 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 or English.
- **Font** of main text – Arial Narrow, 12 pt, line spacing Single Space.
- **Title** - centered, bold capital letters, 12 pt. Below the title follows names of author/s, address, affiliation and E-mail address.
- **Subtitles in text** – centered and underlined.
- **Figures** – black and white computer pictures and graphics placed in the respective position within the text field.
- **Color figures and pictures are not accepted!**
- **Tables** – numbered on the right /font size 12 pt, Italic/.
- **Formulae** – numbered on the right of the formula (in brackets).
- **Measurement units** – according to the International System of Units (SI).
- **Notes** – marked by stars (\*) in text and placed in the bottom of the respective page.
- **References** – the cited references are numbered according to their appearance in the main text and enclosed in brackets [ ].

## REGULATIONS

1. The full text of the abstracts should be submitted until **1. 07. 2024**
2. The full text of the paper should be submitted until **5. 08. 2024**
3. The papers must be sent by e-mail or on CD.
4. Author participation – no more 3 scientific papers.
5. Duration of the paper presentation:
  - Plenary paper – 15 min.
  - Oral presentation – 10 min.
6. Official languages: Bulgarian, English.
7. Firm presentation – 20 min.
8. Registration form for the conference participation should be send until **10. 09. 2024**

## FORMS OF PARTICIPATION

- Plenary sessions;
- Section sessions;
- Discussions;
- Firm presentations;
- Business meetings.

## REGISTRATION FEE

	EURO
Conference participant	150
Accompanying person	70
Student, PhD student	-
Exhibition	400
Firm presentation	800
Advertisement in the Proceedings	1000

The Registration fee includes admission to plenary sessions and exhibition, materials of the conference including Proceedings volume, Welcome cocktail, two lunches (8 and 9 October) coffee and drinks during the coffee breaks, Gala dinner.

Accompanying persons, students and PhD students will not receive the Proceedings of the conference.

The registration fee can be transferred to the Bank account of the Scientific and technical union of mining, geology and metallurgy:

**Scientific and technical union of mining, geology and metallurgy**  
**UniCredit BULBANK,**  
**Sofia, 1000, BULGARIA**  
**BIC - UNCRBGSF**

\* EURO: BG55UNCR76301422597370

## PRELIMINARY PROGRAM

Day	Time	Activities
07.10.2024	10 <sup>00</sup> – 19 <sup>00</sup>	Registration of the participants
		Accommodation in Orpheus SPA Hotel
08.10.2024	9 <sup>00</sup> – 11 <sup>00</sup>	Opening ceremony, greetings Plenary session
	11 <sup>00</sup> – 11 <sup>30</sup>	Coffee break
	11 <sup>30</sup> – 13 <sup>00</sup>	Plenary session - discussion
	13 <sup>00</sup> – 14 <sup>00</sup>	Lunch break
	14 <sup>00</sup> – 16 <sup>00</sup>	Plenary session - discussion
	16 <sup>00</sup> – 16 <sup>30</sup>	Coffee break
	16 <sup>30</sup> – 18 <sup>00</sup>	Plenary session - discussion
	19 <sup>00</sup>	Welcome cocktail party
09.10.2024	9 <sup>00</sup> – 11 <sup>00</sup>	Topic session, firm presentations
	11 <sup>00</sup> – 11 <sup>30</sup>	Coffee break
	11 <sup>30</sup> – 13 <sup>00</sup>	Topic session, discussion, firm presentations
	13 <sup>00</sup> – 14 <sup>00</sup>	Lunch break
	14 <sup>00</sup> – 16 <sup>30</sup>	Topic session, discussion, firm presentations
	16 <sup>30</sup> – 17 <sup>30</sup>	Closing ceremony
	19 <sup>00</sup>	Gala dinner
10.10.2024	9 <sup>00</sup>	Professional visits (optional, minimum 20 participants)

## CONFERENCE VENUE

The conference will be held in Orpheus SPA Hotel, Devin, Bulgaria. Orpheus SPA Hotel, Devin has two conference halls: Hall Europe with 300 places and Hall Bulgaria with 150 places.

The accommodation of all conference participation will be on preferential prices and the difference to the real prices will be taken with the kind sponsorship of the "MINSTROY HOLDING" JSCo.

## HOTEL ACCOMMODATION

Orpheus SPA Hotel	07.10 - 10.10.2024
Single room Standard	80 BGN
Bed in double room Standard	55 BGN

The hotel payment will be realized on the hotel reception.

## IMPORTANT DATES

- Deadline for receiving the papers - 5. 08. 2024 r.  
Deadline for turning in the registration forms and paying the participation fee - 10. 09. 2024 r.

## ADDRESS FOR CORRESPONDENCE

Scientific and technical union of mining, geology and metallurgy

108, G. S. Rakovski Str.

1000, Sofia, BULGARIA

 +359 2/986-13-79

E-mail: [mdgm@fnts.bg](mailto:mdgm@fnts.bg), [nts\\_mdgm@abv.bg](mailto:nts_mdgm@abv.bg)



# REGISTRATION FORM

Ninth National Scientific and Technical Conference with International Participation  
“Technologies and Practices in Underground Mining and Mine Construction”

07 – 10 October 2024  
Orpheus SPA Hotel, Devin, Bulgaria

Title, name and family name: .....

.....

Address:.....

.....

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

Accompanying person: .....

I wish to participate:  with a paper  without a paper

with exhibition  with an advertisement in the Proceedings  firm presentation

I wish accommodation in Orpheus SPA Hotel, Devin, Bulgaria for 07, 08, 09 October 2024

single room,  bed in double room

I have transferred the following amounts:

..... EURO / registration fee

..... EURO / for advertisement

..... EURO / for exhibition

Total: ..... EURO

Bank transfer on the following address:

Scientific and technical union of mining, geology and metallurgy  
UniCredit BULBANK,  
Sofia, 1000, Bulgaria  
BIC - UNCRBGSF

\* EURO: BG55UNCR76301422597370

DATE: .....2024

SIGNATURE:.....

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СПА комплекс ОРФЕЙ, гр. Девин  
Orpheus SPA Hotel, Devin, Bulgaria