



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



XI INTERNATIONAL GEOMECHANICS CONFERENCE

16 – 20 September 2024
Aster Hotel & SPA, Golden Sands Resort
Bulgaria

**Dear Ladies and Gentlemen,
Dear colleagues,**

I am pleased to invite you on behalf of the Organizing Committee and personally on my behalf to take part in the **XI International Geomechanics Conference**, which will be held from 16 to 20 September 2024 in the Astera Hotel & SPA, Golden Sands Resort, Bulgaria.

This year's edition of the conference is the eleven, organized from over 25 years and this once again proves the authority and importance of this scientific forum. The main theme of the conference is New challenges of geomechanics.

The topics of the conference include the full range of fundamental issues on physical and mechanical properties of rocks, stress and strain of rock mass, measurement in geomechanics and remote methods, stability assessment, blasting and seismic impacts, dynamic rock pressure tests, ecology and environmental protection, education. We hope that the thematic topics will provoke your interest again and will be a precondition for many discussions.

The discussion during the conference of the research results will allow for the application of geomechanical methods related to the development and use of underground space in the mining industry, construction, industrial and public buildings, transport facilities and others.

With your participation in the forum you will contribute to raising the scientific level of the **XI International Geomechanics Conference** and strengthening business and personal contacts.

We look forward to seeing you at the XI International Geomechanics Conference!

**Assoc. Prof. Dr. Eng. Kremena Dedelyanova
Chairperson of the Scientific and technical
union of mining, geology and metallurgy**



Organizers
SCIENTIFIC AND TECHNICAL UNION OF MINING, GEOLOGY AND METALLURGY



FEDERATION OF THE SCIENTIFIC ENGINEERING UNIONS IN BULGARIA

Co-organizers

- University of Mining and Geology "St. Ivan Rilski"
- University of Architecture, Civil Engineering and Geodesy
- University of Chemical Technology and Metallurgy
- Geological institute, Bulgarian Academy of Sciences
- University of Transport "Todor Kableshkov"
- University of Structural Engineering & Architecture "Lyuben Karavelov"
- Bulgarian Chamber of Mining and Geology
- Antech TFA Ltd.
- Asarel-Medet JSCo
- Association Bulgarian Coal Mining
- Videx JSCo.
- Geostroy JSCo.
- Geotechmin Ltd.
- Geotrading JSCo.
- Dundee Precious Metals Krumovgrad EAD
- Dundee Precious Metals Chelopech EAD
- Ellatzite-Med JSCo.
- Kaolin JSCo.
- Metropolitan JSCo.
- Maritza-Iztok Mines JSCo.
- Minproekt JSCo.
- Minstroy Holding JSCo.
- Niproruda JSCo.
- Yoda Ltd.

With media partners

Journal Mining and Geology
Journal Geology and Mineral Resources
Newspaper Rudnichar
Publishing house Ore and Metals, Russia
Newspaper Science and Society

Organizing committee

Chairman:

Assoc. Prof. Dr. Eng. Kremena Dedelyanova Chairperson, Scientific and Technical Union of Mining, Geology and Metallurgy

Honorary Chairmen:

Prof. DSc Eng. Tzolo Voutov Honorary Chairman, Scientific and Technical Union of Mining, Geology and Metallurgy

Prof. DSc Nikolay Nikolaev Chairman, National Committee of Rock Mechanics

Deputy Chairmen:

MSc Eng. Dragomir Draganov Chairman, Bulgarian Chamber of Mining and Geology
Prof. Dr. Ivaylo Koprev Rector, University of Mining and Geology "St. Ivan Rilski"

Prof. Dr. Senia Terzieva Rector, University of Chemical Technology and Metallurgy

Assoc. Prof. Dr. Arch. Gichka Kutova-Kamenova Rector, University of Architecture, Civil Engineering and Geodesy

Dr. Eng. Vladimir Vutov Vice-chairman, Scientific and Technical Union of Mining, Geology and Metallurgy

MSc Eng. Shteryo Shterev Vice-chairman, Scientific and Technical Union of Mining, Geology and Metallurgy

Scientific Secretaries:

Dr. Eng. Nikolay Milev University of Architecture, Civil Engineering and Geodesy

Dr. Eng. Georgi Dachev Ministry of Energy

Dr. Krassimira Arsova Scientific and Technical Union of Mining, Geology and Metallurgy

Members:

MSc Eng. Dimitar Angelov Executive Director, Kaolin JSCo.

Dr. Eng. Nevena Babunska University of Transport "Todor Kableshev"

Prof. Dr. Stoyan Bratov Executive director, Metropolitan JSCo.

Dr. Eng. Ivan Vutov Chairman of the Board of Directors, Geotrading JSCo.

Prof. DSc. Eng. Nikolay Valkanov Chairman of the Board of Directors, Minstroy holding JSCo.

Prof. Dr. Iliya Garkov Senior Vice-President, European Operations, Dundee Precious Metals

Prof. DSc. Dimcho Iossifov Scientific and Technical Union of Mining, Geology and Metallurgy

MSc Eng. Ivan Kozhuharov Executive Director, Eurotest-Control JSCo.

Assoc. Prof. Dr. Ivan Mitev Executive Director, Bulgarian Chamber of Mining and Geology

Prof. DSc Valeri Mitkov University of Mining and Geology St. Ivan Rilski

Prof. Dr. Pavel Pavlov University of Mining and Geology St. Ivan Rilski

MSc Eng. Nikolay Peltekov Executive Director, Asarel-Medet JSCo

MSc Eng. Georgi Petrov Deputy General Director Production, Ellatzite-Med JSCo.

Assoc. Prof. Dr. Dimitar Peshev Vice-Rector, University of Chemical Technology and Metallurgy

MSc Eng. Dancho Todorov Executive Director, Niproruda JSCo.

Prof. Dr. Stanislav Topalov Chairman, Association Bulgarian Coal Mining

MSc Eng. Kostadin Hristov Executive director, Minproekt JSCo.

MSc Eng. Yasen Chaushev Maritza-Iztok Mines JSCo.

MSc Eng. Ilza Chinkova Executive Director, Maritza-Iztok Mines JSCo.

National editorial committee

Prof. DSc Nikolay Nikolaev
Assoc. Prof. Dr. Evgeniya Aleksandrova
Prof. Dr. Dimitar Anastasov
Dr. Eng. Tsvetomir Velkov
Prof. Dr. Krastyo Dermendzhiev
MSc Eng. Tzvetan Dilov
Prof. DSc Kolyo Kolev
Prof. Dr. Chavdar Kolev
Dr. Eng. Nikolay Milev
Prof. Dr. Georgi Mihaylov
Assoc. Prof. Dr. Veliko Parushev
Assoc. Prof. Dr. Ekaterina Serafimova
Prof. Dr. Andrey Totsev

International Advisory Committee

Prof. Michael Zhuravkov	- Belarus
Academician Victor Prushak	- Belarus
Prof. Ivan Vrkljan	- Croatia
Assoc. Prof. Petr Konicek	- Czech Republic
Prof. Carsten Drebenstedt	- Germany
Prof. Ákos Török	- Hungary
Prof. Takashi Kiyota	- Japan
Prof. Norikazu Shimizu	- Japan
Assoc. Prof. Jovan Papić	- North Macedonia
Prof. Anton Sroka	- Poland
Prof. Petru Ciobanu	- Romania
Prof. Vassilii Barishnikov	- Russia
Prof. Viktor Gordeev	- Russia
Acad. Mikhail Kurlenya	- Russia
Prof. Vladimir Čebašek	- Serbia
Prof. Vladimir Sedlak	- Slovakia
Assoc. Prof. Joze Kortnik	- Slovenia
Prof. Ersin Arioglu	- Turkey
Prof. Resat Ulusay	- Turkey
Prof. Kemal Cetin	- Turkey
Prof. Garri Litvinskii	- Ukraine

Topics

1. **Physical and mechanical properties of rocks and soils.**
2. **Stress and strain state of rock mass and soils. Interaction between rock mass and engineering structures.**
3. **Measurements in geomechanics. Contact and remote methods. Monitoring.**
4. **Stability evaluation. Dynamic impacts. Soil mass response. Probabilistic approach. Hazard and risk assessment in geomechanics.**
5. **Environment protection. Sustainable development.**
6. **Education and qualification.**

Instruction to the authors

Abstracts

- Abstracts must be in English and limited to 100 words. Text must be in Arial Narrow, 12 pt, Italic.

Deadline for submission of abstracts – 30. 04. 2024

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, English, Russian;
- **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, position and E-mail address;
- **Subtitles in text** – centered and underlined;
- **Figures** – black-and white computer graphics placed in the respective position within the text field.
- **Color figures and pictures 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);
- **Notes** – marked by stars (*) in text and placed in the bottom of the respective page;
- **References** – in the text of the report the references must be in brackets. At the end of the report the references are arranged in alphabetical order, numbered.

Deadline for submission of papers – 1. 07. 2024

Two papers for one author are allowed.

Duration of the paper presentation:

- Plenary paper – 15 min.
- Oral presentation – 12 min.

Please send the papers by e-mail in DOC format!

You can publish your paper (up to 2 papers per author) in IOP Conference Series: Earth and Environmental Science indexed in Scopus, Web of Science and others. All papers must within the IOP EES scope (<https://iopscience.iop.org/journal/1755-1315/page/scope>). Papers for IOP publishing must follow the journal guidelines <https://publishingsupport.iopscience.iop.org/author-guidelines-for-conference-proceedings/>.

Participation types/forms

- Plenary sessions;
- Exhibition;
- Company presentation-;
- Oral presentation;
- Discussion;
- Business meeting.

Official languages

The official languages of the conference will be **Bulgarian, English and Russian**. Simultaneous translation will be provided.

Registration desk

The registration desk is going to be situated in the lobby of the Astera Hotel & SPA, Golden Sands Resort, Bulgaria. It is going to be open on 16 September 2024 from 10⁰⁰ to 19⁰⁰ h. Conference time is scheduled from 09⁰⁰ to 15⁰⁰ h.

Registration fee (EURO)

	Before 1.08.2024	After 1.08.2024
Author	250	-
Author (IOP)	400	-
Second paper (IOP)	200	-
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.

The registration fee Author (IOP) includes publishing in the IOP Conference Series: Earth and Environmental Science.

Students and PhD students are not going to receive the Proceedings volume.

Students and PhD students willing to publish their articles must provide a reference letter by academic rank scientists.

Only articles by authors who paid their registration fee until August 1, 2024, are going to be published.

Exhibition and advertising

Companies and organizations can advertise their products and activities during the conference at an exhibition in the lobby of the Astera Hotel & SPA. The fee for the exhibition is 150 EURO/m² (minimum exhibition area - 2 m²). Exhibitors pay **Exhibitor** registration fee too.

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

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

Hotel accommodation (BGN)

Hotel	Single room	Double room
Astera Hotel & SPA **** standard room	170	230

The accommodation is on the base Ultra All Inclusive.

Booking of the room in the hotel will be provided after receiving the filled registration form on e-mail address: mdgm@fnts.bg until 1 August 2024

Payment for accommodation will be possible at the hotel reception on the registration day.

Payment

Bank transfer at the following accounts:

**Scientific and technical union of mining, geology and metallurgy
XI International geomechanics conference**

**UniCredit BULBANK
1000, Sofia, BULGARIA
BIC - UNCRBGSF**

- * **BGN: BG41UNCR76301022561959**
- * **EURO: BG55UNCR76301422597370**

IMPORTANT DATES

Deadline for receipt of abstracts	30.04.2024
Deadline for receipt of paper	01.07.2024
Deadline for receipt of registration form and paid fees	1.08.2024

Address for correspondence:

**Scientific and technical union of mining, geology and metallurgy
BULGARIA, 1000 Sofia, 108, Rakovski Str.**

Phone: ++359 2 986 13 79; E-mail: mdgm@fnts.bg

nts_mdgm@abv.bg

Assoc. Prof. Dr. Eng. Kremena Dedelyanova – Chairperson, Scientific and technical union of mining, geology and metallurgy

Dr. Krassimira Arsova – Scientific and technical activities, Scientific and technical union of mining, geology and metallurgy

www.mdgm.org

<http://confgeomech.mdgm.org/>

REGISTRATION FORM

XI International geomechanics conference

16 - 20 September 2024
Astera Hotel & SPA,
Golden Sands Resort
BULGARIA

Title, name and family name

.....

Address

.....

Phone: Fax: E-mail:

I wish to participate: with a paper with a paper IOP without a paper
 with firm presentation as an exhibitor on sq. m area

I use: Bulgarian English Russian

I will accept accommodation in hotel for 16, 17, 18 and 19 September 2024

Astera Hotel & SPA 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:

The registration form for participation is expected to be submitted to the Organizing Committee by e-mail mdgm@fnts.bg until 1 August 2024.

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