

СТОЛИЧНА ОБЩИНА
SOFIA MUNICIPALITY



МЕТРОПОЛИТЕН ЕАД
METROPOLITEN JSC

МС Летище София / MS Sofia Airport

ПОКАНА INVITATION

Научно-техническа конференция с международно участие,
посветена на 25-та годишнина на Софийското метро
*Scientific and Technical Conference with International Participation
celebrating the 25th anniversary of the Sofia Metro*

„Иновативни архитектурни, конструктивни
и технически решения
при строителството на метрополитени“
*"Innovative architectural, constructive and technical solutions at
the construction of subways"*

26 - 27 януари 2023 г.
Университет по архитектура,
строителство и геодезия,
гр. София

26 - 27 January 2023
University of architecture,
civil engineering and geodesy
Sofia, BULGARIA

DEAR LADIES AND GENTLEMEN,
DEAR COLLEAGUES,



We have the pleasure to invite you on behalf of the Organizing and Scientific Committee to participate in the Scientific and Technical Conference with international participation celebrating the 25th anniversary of the Sofia Metro on theme "Innovative architectural, constructive and technical solutions at the construction of subways", which will be held on 26 - 27 January 2023, University of architecture, civil engineering and geodesy, Sofia, Bulgaria.

On January 28, 2023, the Sofia Metro celebrates 25 years since the opening of its first section. On this day in 1998, the first metropolitan train traveled the underground railway route of 6.4 km. with 5 metro stations - from Station "Slivnitsa" to Station "Konstantin Velichkov". During the following years the construction of the subway is carried out at a variable pace, depending on the available financing of the sections. In 2003 the Western radius of Line 1 with a total length of 9.5 km with 8 metro stations is completed.

In 2009 the next section of 8 km was put in service. It has 6 metro stations from Section "Serdika" to Section "Mladost 1". After Bulgaria joined the European Union, through the operational programs "Transport" and "Transport and transport connectivity", for the period 2008 - 2020, 34 km of metro track have been built. In this way the total length of the metro network in Sofia becomes 52 km with 47 stations. Currently the share of the urban transport by subway is about 34%.

The construction of the Metro and the new sections is carried out in complex engineering-geological conditions, requiring the application of a number of specific construction methods and innovative solutions. These achievements, along with the high-level engineering of the constructed Metro sections, are the basis for organizing this scientific and technical conference, celebrating the 25th anniversary of the Sofia Metro.

We hope that the conference topics will spark your interest and you will submit scientific reports and papers describing practical applications, and provoke discussions on finding solutions of the complex task of constructing the subway.

Your participation will contribute to the success of the Scientific and Technical Conference with international participation "Innovative architectural, structural and technical solutions in metropolitan construction" and we hope you will be able to make useful new business and personal contacts.

We look forward to meeting you at the Scientific and Technical Conference with international participation "Innovative architectural, structural and technical solutions in metropolitan construction" in Sofia, Bulgaria.

Welcome!

Prof. Dr. Eng. Stoyan Bratov
Chairman of the International
Organizing and Scientific Committee,
Executive director of Metropolitn JSC

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SOFIA MUNICIPALITY - METROPOLITAN EAD

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- Bulgarian Construction Chamber
- Chamber of Engineers in Investment Design
- Chamber of Architects in Bulgaria
- Federation of the Scientific Engineering Unions in Bulgaria
- Scientific and Technical Union of Mining, Geology and Metallurgy
- Scientific and Technical Union of Transport
- Bulgarian Scientific and Technical Union of Civil Engineering
- University of Mining and Geology "St. Ivan Rilski"
- University of Transport "Todor Kableshkov"
- Bulgarian Society for Soil Mechanics and Geotechnical Engineering
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- Glavbolgarstroy AD
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- Treys Group Hold Plc
- Bauer Bulgaria EOOD
- Metroproject Praha AS
- Polytechnic University of Turin
- TU Bergakademie Freiberg, Germany
- Sweco Energoproekt JSC
- Siemens Mobility - Bulgaria

INTERNATIONAL ORGANIZING AND SCIENTIFIC COMMITTEE

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MSc Eng. Kiril Ermenkov	<i>Honorary Chairman, Scientific and technical union of transport</i>
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Arch. MSc Eng. Valentin Trashliev	<i>Chairman, Bulgarian association for geotechnical and tunnel construction</i>
Prof. Dr. Eng. Dietmar Adam	<i>Vienna University of Technology, Austria</i>
Prof. Dr. Eng. Josef Eberhardsteiner	<i>Vienna University of Technology, Austria</i>
Prof. Dr. Eng. Robert Galler	<i>Montanuniversity Leoben, Austria</i>
Prof. Dr. Eng. Carsten Drebenstedt	<i>TU Bergakademie Freiberg, Germany</i>
MSc Eng. Nicola Della Valle	<i>Manager, Tunnelconsult Engineering SL, Spain</i>

TOPICS

1. Modern architectural, constructive and technological solutions in metro construction.
2. Geotechnics and geodesy in metro construction.
3. Innovative solutions for transport automation, management and power supply in metros.
4. Rail tracks in the metro transport - structures, vibration isolation and electric power supply.

INSTRUCTION TO THE AUTHORS

ABSTRACTS

- Abstracts must be in English and limited to 100 words. Text must be in Arial Narrow, 11 pt, Italic.

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;
- **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** – color computer graphics placed in the respective position within the text field;
- **Tables** – numbered on the right (font size 12 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** – the references cited are numbered according to their appearance in the main text and enclosed in brackets [];

REQUIREMENTS

1. Deadline for abstract, full text of the paper and registration form should be submitted until **30.11. 2022** on E-mail: **metro@metropolitan.bg**
2. Duration of the paper presentation:
 - Plenary Session – 15 min.
 - Topic Session – 10 min.
3. Official languages: Bulgarian, English.

PRELIMINARY PROGRAM

FIRST DAY

26.01.2023 - THURSDAY

09.30 - 10.00	Registration of participants
10.00 - 10.30	Conference Opening
10.30 - 12.00	Plenary session:
	1. 25 years of Sofia Metro - Prof. Dr. Eng. Stoyan Bratoev, Executive director, Metropolitn JSC
	2. Development of the metro in Sofia - planning, architectural and urban planning trends - Arch. Zdravko Zdravkov, Chief Architect of Sofia Municipality
	3. Geotechnical and hydrogeological features, and specific solutions for the strengthening measures during the construction of the metro in Sofia - Prof. DSc Eng. Bozhidar Bozhinov, University of mining and geology "St. Ivan Rilski"
	4. Geotechnical marriage of theory to practice – Dr. Marc Ballouz – President of International Society for Soil Mechanics and Geotechnical Engineering
12.00 - 13.00	Lunch
13.00 - 17.00	Topic session
	1. Modern architectural, constructive and technological solutions in metro construction.
	2. Geotechnics and geodesy in metro construction.
	3. Innovative solutions for transport automation, management and power supply in metros.
	4. Rail tracks in the metro transport - structures, vibration isolation and electric power supply.
15.00 - 15.30	Coffee break
17.00 - 18.00	Company presentation. Discussion.
	Closing of the scientific part of the conference

PRELIMINARY PROGRAM

SECOND DAY

27.01.2023 - FRIDAY

10.00 - 12.00	Visit to the dispatch center of the metro and the depot of Line 3 in Zemlyane quarter
12.00 - 12.30	Coffee break
12.30 - 14.30	Visit to the new Line 3 of the metro in Sofia and the construction of the new section "residential complex Hadji Dimitar - residential complex Levski"
15.00 - 15.30	Opening of an exhibition dedicated to the 25th anniversary of the Sofia Metro / Lovers Bridge, National Palace of Culture, Sofia /
19.00	Gala concert "25 years of Sofia metro" and awarding of participants in the construction and operation of the metro in Sofia

Admission by official invitations. Participants of the conference shall confirm their attendance at the concert to obtain a seat invitation.

REGISTRATION FORM

Scientific and Technical Conference with international participation celebrating
the 25th anniversary of the Sofia Metro
"Innovative architectural, constructive and technical solutions
at the construction of subways"

26 – 27 January 2023

Sofia, Bulgaria

Title, name and family name: _____

Address: _____

Phone: _____ Fax: _____

E-mail: _____

Accompanying person: _____

I wish to participate: with a paper without a paper

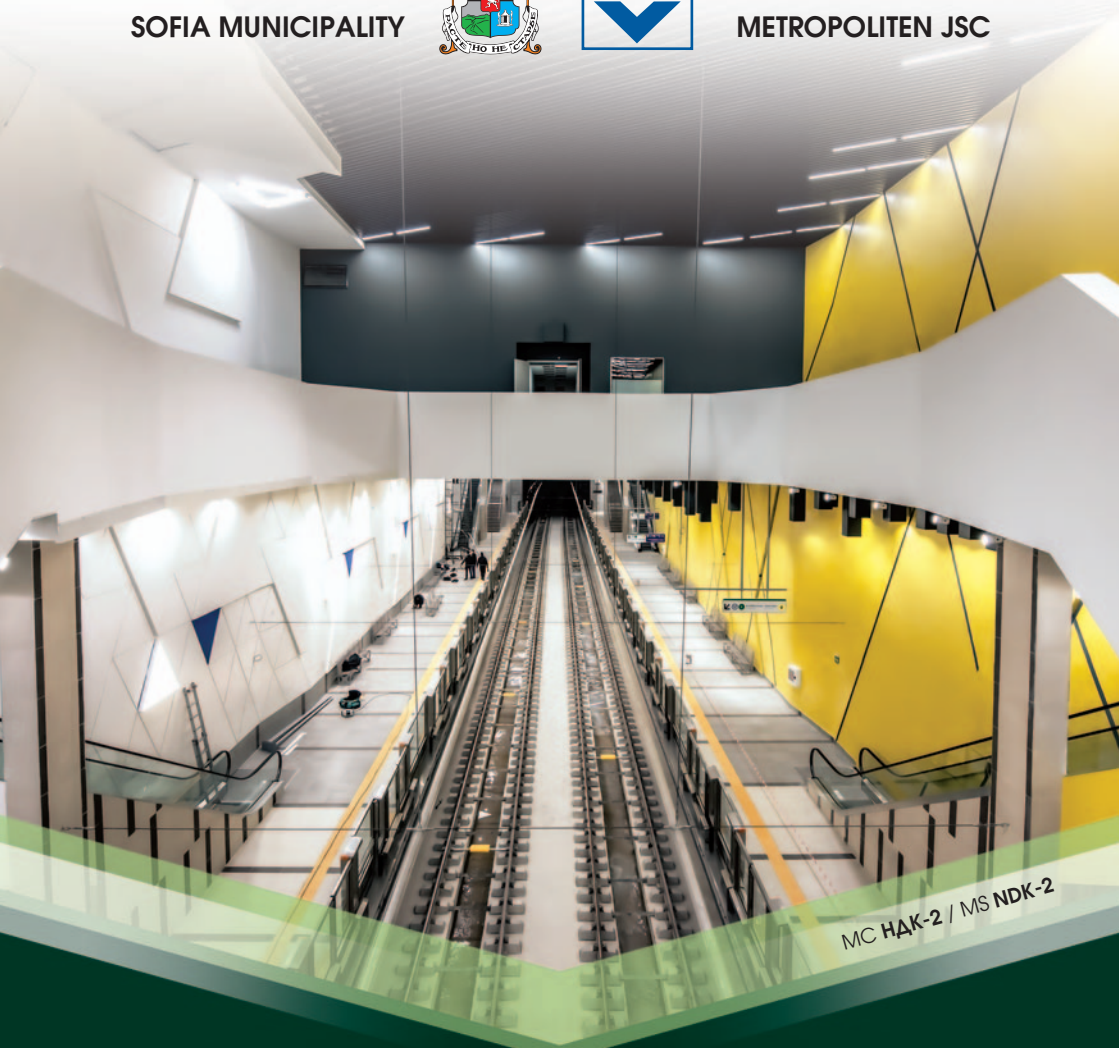
DATE _____

SIGNATURE: _____

СТОЛИЧНА ОБЩИНА
SOFIA MUNICIPALITY



МЕТРОПОЛИТЕН ЕАД
METROPOLITEN JSC



МС НАК-2 / MS NDK-2

26 - 27 януари 2023 г.
Университет по архитектура,
строителство и геодезия,
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