XV INTERNATIONAL CONGRESS

WINTER SESSION

"MACHINES.TECHNOLOGIES.MATERIALS"



ORGANIZER

SCIENTIFIC-TECHNICAL UNION OF MECHANICAL ENGINEERING BULGARIA «INDUSTRY-4.0»

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WITH THE SUPPORT OF

- 1. National Scientific-Technical Societies:
- Society of Foundry
- Metal Science and Heat Treatment Society
- Automation of Discrete Production Society
- Bulgarian Society of Non-Destructive Testing
- Gear Transmissions and Driving Society
- · Plastic Deformation and Destructive testing
- Plastics in Mechanical Engineering Society
- · Society of Powder Metallurgy and Composite Materials
- Management and Engineering Society
- Ergonomics and Industrial Design Society
- Industrial Informatic Society

- 2. Bulgarian Welding Society
- 3. Bulgarian Society of Robotics and Mechatronics
- 4. Bulgarian Society of Tribology

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Eng. Ognyan Zhekov (BG)

INVITATION

Dear Colleagues,

The winter session of XV International Congress "MACHINES, TECHNOLOGIES, MATERIALS" will be held from 14th to 17th March, 2018 in the resort "Borovets" in Rila Mountain, as a comprehensive scientific-technical event, which includes three main topics. The Congress program includes also seven special congress sub-sections.

We invite the scientists and the researchers to present the results of their research works before the academic society and the industry representatives and to publish them in the international scientific magazines, issued by the Scientific-Technical Union of Mechanical Engineering.

We invite the companies to introduce their high-tech products and services, offered on the market, by presentations at the conference sessions and advertisements in the conference documents.

We hope the Congress **MTM'18** will play a leading role as an innovation mediator between the scientific research and industry and we offer you to take advantage of this opportunity.

The congress program will give you the chance to find new friends and ideas, to relax, to amuse, and to feel the charm of the splendid winter in the mountains.

Prof. D.Sc. DHC Georgi Popov, President of Bulgarian Scientific-Technical Union of Mechanical Engineering, Chairman of the International Program Committee

SCIENTIFIC PROGRAM

TOPICS

1. MACHINES:

Design and Construction. Rapid Prototyping. Manufacturing. Investigation and Testing. Exploatation, Maintenance and Repair. Modernization. Recycling and Utilization. Life Cycle Engineering. Re-Engineering. Training.

2. TECHNOLOGIES:

Metal Casting, Plastic Deformation, Welding, Soldering and Adhesive Bonding, Machining.

Surface Treatment. Changing of Properties. Testing, Measurement and Control. Mathematical modeling of technological processes.

Automation. Logistic. Load Treatment. Management and Engineering. Energy Saving and Environment Friendly Technologies. Training.

3. MATERIALS:

Materials Science. Metal Materials, Non-Metal Materials, Tool Materials, Construction Materials, Accessory Material. Composites. Training.

SPECIAL CONGRESS SUB- SECTIONS

- 1. POWER TRANSMISSIONS 2018 (mechanical, electrical, hydraulic and pneumatic)
- 2. INDUSTRIAL DESIGN ENGINEERING & ERGONOMICS 2018
- 3. INDUSTRIAL INFORMATIC& MATHEMATICAL MODELING 2018
- 4. KNOWLEDGE. CREATIVITY. INNOVATIONS 2018
- 5. INDUSTRIAL MANAGEMENT 2018
- 6. NANOMATERIALS 2018
- 7. BULTRIB 2018

The official language of the Congress MTM'18 is English.

CALL FOR PAPERS

Scientists from all over the world are kindly invited to present the results of their researches in the plenary, section and poster sessions or in the special congress sub-sections.

Companies, offering machines, materials, technologies and services on the market, are also invited to present practical results in accordance with the congress topics in the form of company presentations and advertisement at the congress halls and in the congress printed issues.

Paper's abstract up to 200-350 words, **written in English,** in .doc or .docx format, with up to 10 keywords, authors' names and titles, occupation and e-mail address, together with the Author's Response (<u>Form A</u>) or the <u>online registration</u> has to be sent to the Organizing Committee not later than 15.12.2017.

The Author's response Form A will be registered in the section "Received Abstracts and Papers" of the congress web-site and a registration number will be given the paper. The Organizing Committee recommended the authors use this registration number in the further correspondence and if the files sent also begin with this number and the phrase "mtm18-w". For example: 131 Spenser mtm18-w.doc.

Authors of the approved papers will be informed about the Program Committee's decision not later than 20.12.2017.

Only papers formatted in accordance with the <u>graphical</u> and <u>text</u> instructions, accepted peer-reviewed and presented at the oral and poster congress sections will be published.

The full text papers up to 4 pages, written in English, must be sent not later than 31.01.2018 by email, together with the Application form for participation (Form B) or online registration. The name of the paper's file has to consist of the registration number, author's name and the phrase "mtm17". For example: "131_Spenser_mtm18-w.doc"

If the authors cannot participate personally in the Congress, they can participate in the poster session. In that case the author should pay only the publication fee and the paper will be published in the congress journals. The poster papers have to be formatted according to the poster graphical and text instructions. They should be sent by e-mail until 01.03.2018 so the papers could be presented at the Congress. The Organizing Committee takes the obligation to print the poster and to include it in the poster session.

All instructions can be found on the congress website: http://mtmcongress.com An example of the title page can be downloaded there, so the authors could write easy the whole paper according to the requirements.

PUBLICATIONS

All papers included in the congress scientific program will be published as follows:

- All reports submitted on the Bulgarian, Russian, English or German: in a separate volume "International Scientific Congress "Machines.Technologies.Materials" ISSN 2535-0021 (Print), ISSN 2535-003X(Online)" for each thematic session;
 - CD containing all the papers:
- Papers written in English: in the separate issue of the international scientific journals (www.stumejournals.com) according to the themes of the reports:
 - -"Machines.Technologies.Materials" (Print ISSN 1313-0226, Web ISSN 1314-507X)
 - -"Innovations" (Print ISSN 1314-8907, Web ISSN 2534-8469)
- -"Materials Science. Non-Equilibrium Phase Transformations" (Print ISSN 2367-749X, Web ISSN 2534-8477)
 - -"Science.Business.Society" (Print ISSN 1313-0226, Web ISSN 2534-8485)
 - -"Industry 4.0" (Print ISSN 2534-8582, Web ISSN 2534-8582)

FEES AND PAYMENTS

	EURO	
TYPE OF FEE	Up to	After
	31.01.2018	31.01.2018
1. Congress fees:		
1.1. Participation Fee	200 / 120*	250 / 180*

Includes: Published in the issue of international periodical magazine "International Scientific Congress, Machines. Technologies. Materials" - ISSN 2535-0021 (Print), ISSN 2535-003X(Online)" and in international scientific journals according to the themes of the reports, Welcome cocktail, congress materials, coffee breaks, CD with all congress contributions.		
1.2. Fee for second and third paper - only publication fee	90	130
2. Accompanying person (including co-authors)		
Includes: Welcome cocktail, congress materials, coffee breaks	110	150
3. Publication fee (For authors who cannot participate personally in the congress) Includes: Published in the issue of International periodical magazine "International Scientific Congress, Machines. Technologies. Materials" - ISSN 2535-0021 (Print), ISSN 2535-003X(Online)" and in International scientific journals according to the themes of the reports, CD with all papers and printing of the poster paper in A1 format.	90	130
4. Additional payments:4.1. For receiving the printed issue of the journal at the Congress (volume with the papers).	20	20
4.2. For receiving the printed issue of the journal by post (volume with the papers).	30	30

^{*}Reduced fee for Young scientists in 35 years.

OVERNIGHT STAYS

Hotel "ELA"* - BOROVETS**

Price per night: single room 35 Euro, double room - 40 Euro

Hotel "RILA"***- SOFIA

Price per night: single room 35 Euro, double room - 40 Euro

PAYMENTS

Bank transfer to the account of the Scientific and Technical Union of Mechanical Engineering at ProCredit Bank:

IBAN: BG53 PRCB 9230 1449 8985 01, BIC: PRCBBGSF

Beneficiary: NTS mashinostroene Industry-4.0.

Please write in the payment document "MTM'18-W" and your registration number which you may find here: http://www.mtmcongress.com in the section "Received abstracts and papers"

In cash at the office of the Scientific and Technical Union of Mechanical Engineering: 1000 Sofia, 108 "G. S. Rakovski" str. Office №411.

All bank charges related to the transfer are borne by the participant.

GENERAL INFORMATION

THE VENUE

Hotel Ela

Registration, opening, plenary and sectional sessions: Hotel Ela (Fir-tree)***

ACCOMODATION

Hotel Ela (Fir-tree)*** at the Borovets winter resort

Address: Samokov, Borovets resort, Hotel Ela

The Borovets winter resort is located at 1350 m above the sea level on the northern slopes of the Rila mountain, 70 km southeasterly from Sofia and 10 km from the town of Samokov. The climate of the resort is temperate, the winter is mild with loads of snow. The average temperature in January – the

coldest month is minus 4,8 C°. Usually the ski season starts in the middle of December and closes in April.

Hotel Ela is located in the ideal centre of the Borovets winter resort. The hotel is situated close to the gondola lift station for Yastrebets and the Musala peak (2925 m) and 300 m from the drag lifts.

Visual information about the resort "Borovets" can be found at:

https://www.youtube.com/watch?v=WUMNYPQ5W1Y

https://www.youtube.com/watch?v=GjRGTnSNEA0

Address: Samokov, Borovets resort, Hotel Ela

In case you travel by car, you can use the GPS coordinates of Hotel Ela:

GPS - 42.26757, 23.60381

City Transport to Hotel Ela

From Sofia Airport by underground to Joliot-Curie station. The South coach station is located 50 m in the south of the underground station, under the bridge of Dragan Tsankov boulevard. The buses for Samokov depart every 30 minutes.

The travel duration is 1 hour approximately. Ticket price - 5.00 leva.

Minibuses depart every 30 minutes to the Borovets resort at the Samokov coach station, sector No.2. The travel duration is 10-12 minutes approximately. Ticket price - 1,30 leva. First bus departs for Borovets resort at 7.00 a.m., and the last one at 7.00 p.m. Taxi fare from Samokov coach station to Hotel Ela: 10-12 leva.

Hotel Ela is located 20 m from the last station, in reverse direction of arrival.

Hotel Rila - City of Sofia

A lodging for the night in Hotel Rila, Sofia is reserved for congress participants, who would like to sightsee Sofia, or the transport connections do not allow an immediate departure to the Borovets resort. The Hotel Rila is located at the exact centre of Sofia, very close to the Serdika underground station. From Sofia Airport by underground to Serdika station. At 150 meters southeast is located Hotel Rila. Address: Sofia, 6, Tsar Kaloyan St., Hotel Rila.

TIME TABLE

14.03.2018 (Wednesday) Registration of the participants.

15.03.2018 (Thursday) Opening ceremony 10:00. Plenary session. Congress sessions. Special Congress Sub-sections. Poster session. Welcome party.

16.03.2018 (Friday) 09:00 Congress sessions. Closing of the Congress.

17.03.2018 (Saturday) Departure of the participants.

REGISTRATION

In the lobby of the Hotel ELA - Borovets

14.03.2018 from 16.00 to 20.00 and

15.03.2018 from 08.00 to 10.00.

ENTRY TO BULGARIA

Visitors from the European Union coming to Bulgaria need an identity document.

Visitors from other countries require an entry visa.

Visitors are recommended to contact the Bulgarian Embassy (you can find them on: http://www.mfa.bg/en/) or Consulate in their own country for information on visa requirements. If an official letter of invitation is requested, please contact the Congress Secretariat in due time (before the registration deadline).

TIME

Bulgaria is in the Eastern European Time Zone (GMT+2)

WEATHER

Average air temperature in the period 14 - 17 March, 2017 – minus 3,4 °C.

Snow cover out on the slopes during the period: on 14 and 17.03.2017 - 180 cm

Check the weather in real time here: http://weather.bg/indexen.php

CURRENCY

The official currency is the lev (plural: leva).

1 euro = 1.95583 lev

All major credit cards (e.g. VISA, MasterCard, Eurocard) are usually accepted in Bulgaria

EMERGENCY SERVICES

Uniform European telephone number for emergency situations: 112

DEADLINES

The Abstract of the paper and Author's Response Form "A" or online	15.12.2017
registration should be sent up to	
Confirmation of the abstract approval	20.12.2017
The Full text of the paper(s) and Participation Form "B" or online	31.01.2018
registration should be sent up to	
Payment of the Congress fees	31.01.2018
Announcement of the Congress program on the web page:	01.03.2018
http://www.mtmcongress.com/winter/1.xls	
The Organizing Committee will receive posters up to	01.03.2018
Registration of the participants from 16.00 to 20.00	14.03.2018
from 08.00 to 10.00	15.03.2018
Opening of the congress 10:00	15.03.2018
Departure of the participants	17.03.2018

CONGRESS SECRETARIATE

Scientific-Technical Union of Mechanical Engineering 108 Rakovski str., 1000 Sofia tel./fax (+359 2) 986 22 40, tel. (+359 2) 987 72 90 Mobile: +359 888003582

office@mtmcongress.com, http://mtmcongress.com