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**XII INTERNATIONAL CONGRESS**  
**MACHINES, TECHNOLOGIES, MATERIALS**  
**16–19.09.2015 VARNA, BULGARIA**



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**TOPIC**  
**„INNOVATIONS FROM SCIENCE TO INDUSTRY”**

**ORGANIZER**  
**SCIENTIFIC-TECHNICAL UNION OF MECHANICAL ENGINEERING BULGARIA**

**CO-ORGANIZERS**  
Federation of the Scientific-Technical Unions in Bulgaria  
Technical University Sofia  
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Technical University Gabrovo  
Ruse University „Angel Kanchev”  
Todor Kableshkov University of Transport Sofia  
University of Chemical Technology and Metallurgy Sofia  
Society of Polish Mechanical Engineers and Technicians (SIMP)  
Scientific – Technical Association China  
Scientific and Technical Unions Varna

**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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### INVITATION

Dear Colleagues,

The XII International Congress "**MACHINES, TECHNOLOGIES, MATERIALS - INNOVATIONS FROM SCIENCE TO INDUSTRY**" will be held from 16<sup>th</sup> to 19<sup>th</sup> September, 2015 in the resort “St. St. Konstantin and Elena”, region Varna, as a comprehensive scientific-technical event, which includes three main topics. The Congress program includes also five special congress sub-sections which were held separately till now.

We invite scientists and researchers to present the results of their investigations to the colleagues and industry representatives and to publish them in the International Scientific-Technical Journal "**MACHINES, TECHNOLOGIES, MATERIALS**", which is issued in printed form and is generally available on his site at [www.mech-ing/journal/](http://www.mech-ing/journal/).

We invite companies with presentations at the congress sessions and advertising materials to present their available on the market machines, equipment, technologies, materials and services.

We hope the Congress **MTM'15** 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 weekend program after the **MTM'15** opening will give you a chance for rest, entertainment and learning more about the cultural, historical and natural attractions of the northern coast of Black Sea.

**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. Exploitation, 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. 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 2015 (mechanical, electrical, hydraulic and pneumatic)
2. INDUSTRIAL DESIGN ENGINEERING & ERGONOMICS 2015
3. INDUSTRIAL INFORMATICS 2015
4. KNOWLEDGE. CREATIVITY. INNOVATIONS 2015
5. INDUSTRIAL MANAGEMENT 2015
6. NANOMATERIALS 2015

**The official language of the Congress MTM'15 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* (**Form A**) or the [online registration](#) has to be sent to the Organizing Committee not later than **April 30, 2015**.

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 "mtm15". For example: **131\_Spenser\_mtm15.doc**.

Authors of the approved papers will be informed about the Program Committee's decision not later than **April 30, 2015**.

Only papers formatted in accordance with the [graphical](#) and [text](#) 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 **Juni 30, 2015** 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 "mtm15". For example: "131\_Spenser\_mtm15.doc"

The congress papers will be published in distinct issue of web-based international scientific journal "[MACHINES, TECHNOLOGIES, MATERIALS](#)" (ISSN 1313-0226).

**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 **September 01, 2015** 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: [www.mech-ing.com/mtm/](http://www.mech-ing.com/mtm/). 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:

- **Papers written in English:** in the separate issue of the international journal for science, techniques and innovations for the industry "[Machines, Technologies, Materials](#)" (ISSN 1313-0226).
- **CD** containing all the papers.
- **Author's reprints**, containing the title page, contents and the paper printed with the pagination of the pages.

**The volumes and issues will be deposited in the National Library "St. St. Cyril and Methodius", Central Scientific and Technical Library.**

## FEES AND PAYMENTS

TYPE OF FEE	EURO	
	Up to 30.06.	After 30.06.
<b>1. Congress fees:</b>		
<b>1.1. Participation Fee</b>	<b>200 / 120*</b>	<b>250 / 180*</b>
<b>Includes:</b> Welcome cocktail, congress materials, coffee breaks, published in the International Scientific and technical journal " <b>Machines, Technologies, Materials</b> " or in the issue of international periodical magazine " <b>Reports of the Scientific-Technical UNION of Mechanical Engineering</b> ", ISSN 1310-3946, author copy (incl. Cover, title page, the content of the magazine and talk with colored pictures), CD with all congress contributions.		
<b>1.2. Fee for second and third paper - only publication fee</b>	<b>90</b>	<b>130</b>
<b>2. Accompanying person (including co-authors)</b>		
<b>Includes:</b> welcome party, congress materials, coffee breaks	<b>110</b>	<b>150</b>
<b>3. Publication fee</b> ( <i>For authors who cannot participate personally in the congress</i> )		
<b>Includes:</b> publishing in the web based journal " <b>Machines, Technologies, Materials</b> ", author's reprint, CD with all papers and printing of the poster paper in A2 format.	<b>90</b>	<b>130</b>

<b>4. Additional payments:</b>		
4.1. For receiving the printed issue of the journal at the Congress (volume with the papers).	<b>20</b>	<b>20</b>
4.2. For receiving the printed issue of the journal by post (volume with the papers).	<b>30</b>	<b>30</b>

\* *Reduced fee for Young scientists in 35 years.*

## OVERNIGHT STAYS

Hotel "Aqua Azur"\*\*\*\*

Price per night: single room 35 Euro, double room - 45 Euro

## PAYMENTS

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

**IBAN: BG70 PRCB 9230 100779 0813, BIC: PRCBBSF**

**Beneficiary:** NTS mashinostroene.

Please write in the payment document "MTM'15" 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

Registration, opening, plenary and sectional sessions: Hotel "Aqua Azur" \*\*\*\*.

Address: Varna, PO Box 9006, Resort "St. Konstantin and Elena ":

### ACCOMODATION

Hotel "Aqua Azur" \*\*\*\*

If arriving by car you may use the GPS coordinates of the hotel "Aqua Azur":

**N 43grad 14,277'**

**EO 28grad 00,828'**

### TIME TABLE

**16.09.2015 (Wednesday)** Registration of the participants.

**17.09.2015 (Thursday)** Opening ceremony 10:00. Plenary session. Congress sessions. Special Congress Sub-sections. Poster session. Welcome party.

**18.08.2015 (Friday)** 09:00 Congress sessions. Closing of the Congress.

**19.08.2015 (Saturday)** Departure of the participants.

### PUBLIC TRANSPORT

From the airport to the hotel "Aqua Azur": there is a direct bus line 409 (23<sup>th</sup> stop "Minyor").

From the bus station to the hotel "Aqua Azur": there is a direct bus line 409 (16-th stop "Minyor").

From the railway station to the hotel "Aqua Azur" - Bus 9 (the last stop in the center of the resort "St. St. Konstantin and Elena". The hotel "Aqua Azur" is 250 meters away.

### REGISTRATION

In the lobby of the hotel "Aqua Azur

**16.09.2014** from **16.00** to **20.00** and

**17.09.2014** 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**

**Air temperature:** on 16.09.2014 - 25,6 °C and on 19.09.2014 – 26,4 °C.

**Sea temperature:** on 16 and 19.09.2014 - 24 °C

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 <a href="#">Form "A"</a> or <a href="#">online registration</a> should be sent up to	30.04. 2015
Confirmation of the abstract approval	30.04. 2015
The Full text of the paper(s) and Participation <a href="#">Form "B"</a> or <a href="#">online registration</a> should be sent up to	30.06. 2015
Payment of the Congress fees	30.06. 2015
Announcement of the Congress program on the web page: <a href="http://www.mtmcongress.com/1.xls">http://www.mtmcongress.com/1.xls</a>	01.09. 2015
The Organizing Committee will receive posters up to	01.09. 2015
Registration of the participants	16.09. 2015
Opening of the congress	17.09. 2015
Departure of the participants	19.09. 2015

#### **CONGRESS SECRETARIATE**

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