



I. MAMUZIĆ

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## 16 th International Symposium of Croatian Metallurgical Society »Materials and Metallurgy«

<http://pubweb.carnet.hr/metalurg>

# SHMD `2023

Croatia, Zagreb, April, 20 th – 21 st, 2023

**70<sup>th</sup> Anniversary of the Foundation of Croatian Metallurgical Society  
(from Society of Engineers and Technician Steel Works Sisak), Croatia, 1952 y**

**60<sup>th</sup> Anniversary of the Foundation and Publication of the Journal Metalurgija,  
Croatia, 1962 y**

### Symposiums have been held :

- 1 st: Zagreb – 1994 – February, 16 – 18 (88 lectures)
- 2 nd: Split – 1996 – June, 20 – 22 (150 lectures)
- 3 rd: Šibenik – 1998 – June, 25 – 27 (192 lectures)
- 4 th: Opatija – 2000 – June, 25 – 29 (333 lectures)
- 5 th Šibenik – 2002 – June, 23 – 27 (375 lectures)
- 6 th: Šibenik – 2004 – June, 20 – 24 (368 lectures)
- 7 th: Šibenik – 2006 – June, 18 – 22 (475 lectures)
- 8 th: Šibenik – 2008 – June, 22 – 26 (615 lectures)
- 9 th Šibenik – 2010 – June 20 – 24 (541 lectures)
- 10 th Šibenik: 2012 – June, 17- 21 (641 lectures)
- 11 th Šibenik: 2014 – June, 22- 26 (689 lectures)
- 12 th Šibenik: 2016 – June, 19- 23 (546 lectures)
- 13 th Šibenik: 2018 – June, 24- 29 (561 lectures)
- 14 th Šibenik: 2020 – June, 21- 26 (435 lectures)
- 15 th Zagreb: 2022 – March, 22-23 (527 lectures)

### THE AIM OF SYMPOSIUM `2023

The aim of this Symposium is to point out all the possibilities of the Materials and achievements in Metallurgy.

### TOPICS OF THE SYMPOSIUM WILL BE:

#### Materials

- New Materials
- Refractory Materials
- The Development
- Applications
- Physical Metallurgy

#### Metallurgy

- Process Metallurgy and Foundry
- Plastic Processing of Metals and Alloys
- Technologies
- Energetics
- Ecology in Metallurgy
- Quality Assurance and Quality Management

**ORGANIZER****CROATIAN METALLURGICAL SOCIETY (CMS)****PATRONS (same as for 15 th Symposium )**

- World Steel Association (WSA)
- International Society of Steel Institutes (ISSI)
- European Steel Federation (ESF)
- European Steel Institute Confederation (ESIC)
- University of Slavonski Brod, Faculty of Mechanical Engineering, Croatia
- University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Croatia

**CO-ORGANIZERS ( same as for 15 th Symposium )**

- Academy of Engineering Science of Ukraine
- AGH University of Science and Technology, Krakow
- University of Ljubljana, Faculty of Natural Science and Engineering
- University of Ljubljana, Faculty of Mechanical Engineering
- Baikov Institute of Metallurgy and Materials Science Russian Academy of Sciences, Moscow
- University of Zenica, Faculty for Metallurgy and Materials Science, Zenica
- National Metallurgical Academy of Ukraine
- Technical University of Košice, Faculty of Metallurgy
- Technical University of Košice, Faculty of Mechanical Engineering
- Technical University of Košice, Berg Faculty
- VŠB Technical University of Ostrava
- Institute of Materials Research of the Slovak Academy of Sciences in Košice
- Moscow State Steel and Alloys Institute
- Physico-Technical Institute National Academie of Science, Minsk
- Politehnica University of Bucharest
- Institute of Metallurgy “Kemal Kapetanović”, Zenica
- Dnepropetrovsk National University
- Czech Steel Federation
- Slovak University of Technology in Bratislava, Faculty of Materials Science and Technology
- University of Rijeka, Technical Faculty
- Czestochowa University of Technology
- Silesian University of Technology, Katowice
- Institute of Metals and Technology, Ljubljana

**CO-OPERATION WITH ORGANIZATIONS****(same as for 15 th Symposium)**

- Stahlinstitut VDEh, Germany
- ATS - Association Technique de la Siderurgie Francaise
- CENIM - Centro Nacional de Investigaciones Metalurgicas Spain
- ChSM - The Chinese Society for Metals China
- CRM - Centre de Recherches Metallurgiques Belgium
- ASMET - The Austrian Society for Metallurgy and Materials
- American Iron and Steel Institute, USA
- ISIJ - The Iron and Steel Institute of Japan
- JERN - Jernkontoret, Sweden
- SRM Romanian Society for Metallurgy

- SITPH - Association of Polish Metallurgical Engineers
- HOOGOVENS, The Netherlands
- SHS - Slovak Metallurgical Society
- Sociedade Portuguesa de Materiais
- MVAE - Association of Hungarian Steel Industry
- Steel Federation of the Czech Republic
- Union of Bulgarian Metallurgists
- IBS - Instituto Brasileiro de Siderurgia
- AIM - Associazione Italiana di Metallurgia
- The Japan Institute of Metals
- Egyptian Association for Industrial Development
- Institute Argentino de Siderurgia
- Associacao Brasileira de Metalurgia e Materiais
- ILAFA - Instituto Latinoamericano del fierroy el Ace-ro, Chile
- Société Francaise de Métallurgie et de Materiaux
- The Institut of Materials, Minerals and Mining, Eng-land
- P. T. Krakatau Steel, Indonesia
- KOSA - Korea Iron and Steel Association
- Amsteel Mills Sdn Bhd, Malaysia
- Philippine Iron & Steel Institute
- NatSteel Asia (S) Pte Ltd, Singapur
- The South African Institute of Mining and Iron and Steel Institute of Thailand
- Vietnam Steel Corporation

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#### GENERAL INFORMATION

##### Languages

Croatian, English (no simultaneous translation)

#### Registrations, Abstracts send at latest, January, 31 st:

Croatian Metallurgical Society  
 Berislavićeva 6, 10000 Zagreb, Croatia  
 Phone / Fax: +385 1 619 86 89 (service)  
 Mob: + 385 98 317 173  
 E- mail: [ilija.mamuzic@public.carnet.hr](mailto:ilija.mamuzic@public.carnet.hr)

#### Book of Abstracts

The Abstract in “Book of Abstracts“ must be in the following form:

Initial of First Name, Surname, Title of Abstract, Content – max 110 words.

The workshop of Symposium will be held in 4 Sections:

- Materials – Section “A”
- Process Metallurgy – Section “B”
- Plastic Processing – Section “C”
- Metallurgy and Related Topics – Section “D”

Will be oral presentation 5-10 min but in each sections must be min 25 hold of Lectures, or Symposium will be canceled (unenough participants).

#### Please see WEB site for all informations and Deadlines:

– <http://pubweb.carnet.hr/metalurg>)

#### PARTICIPATION FEE INCLUDED SYMPOSIUM ATTENDANCE AND SYMPOSIUM MATERIALS:

- a) DELIVERY of the Journal METALURGIJA 62 (2023) 3 including “Book of Abstracts“ with Author’s Abstract: 200 EUR + VAT 5 % with or without personally participate at Symposium
- b) DELIVERY of the Journal METALURGIJA, with the Publication of a whole the Article, including ITEM a): 650 EUR + VAT 5 %
- c) Others Participants and co-authors 100 EUR + VAT 5 %

#### Please pay at latest Participation Fee by January, 31, 2023 to:

Croatian Metallurgical Society, Zagreb  
 Berislavićeva 6, Croatia the Bank account No:  
 Privredna Banka Zagreb, St. Radnička cesta 50,  
 Zagreb, Croatia  
 703000-304713  
 IBAN: HR 76 2340 0091 1100 4804 3  
 Swift code (BIC): PBZGHR2X

For the Participants from Croatia (in Croatian Kuna):  
 HR7623400091110048043

#### Deadlines for send and whole Papers September, 30 th, 2023

Without the payment we will not publish of Abstracts or Articles.

**Important note:** The more details about of the Capital of Croatia, Zagreb, Accommodation, Excursions, etc., Please see: [www.infozagreb.hr](http://www.infozagreb.hr)