

**CROATIAN METALLURGICAL SOCIETY
HRVATSKO METALURŠKO DRUŠTVO**

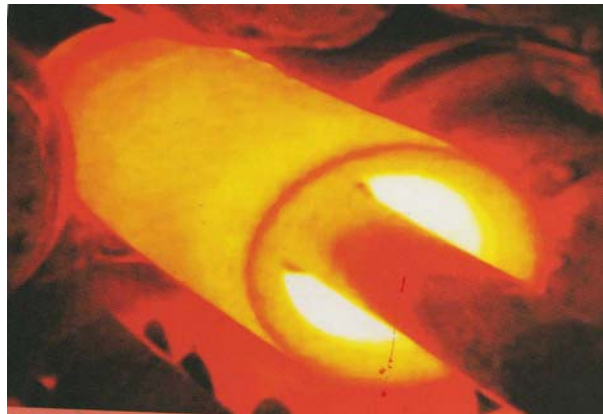
**9th INTERNATIONAL
9. MEĐUNARODNI**

**SYMPOSIUM OF CROATIAN METALLURGICAL SOCIETY
SIMPOZIJ HRVATSKOG METALURŠKOG DRUŠTVA**

S H M D '2010.

**MATERIALS AND METALLURGY
MATERIJALI I METALURGIJA**

***P R O G R A M M E
P R O G R A M***



Šibenik, CROATIA, June 20 – 24 2010.

ŠIBENIK, HRVATSKA, 20. – 24. lipnja 2010.

HOTELSKO NASELJE *SOLARIS HOLIDAY RESORT*

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**9th International Symposium
of Croatian Metallurgical Society**

S H M D '2010.

«Materials and Metallurgy»

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

Šibenik 2010, June 20-24

Solaris Holiday Resort, Croatia

9th International Symposium of Croatian Metallurgical Society
«Material and Metallurgy» will be held as a part of:

- **150th anniversary** of THE ESTABLISHMENT OD STEEL INSTITUTE VDEh,
DÜSSELDORF, Germany
- **90th anniversary** of THE ESTABLISHMENT OF DNEPROPETROVSK
NATIONAL UNIVERSITY, Dnepropetrovsk, Ukraine
- **70th anniversary** of STUDIES OF METALLURGY OF UNIVERSITY OF
LJUBLJANA, Slovenia
- **60th anniversary** of THE ESTABLISHMENT OF INSTITUTE OF METALS AND
TECHNOLOGY, Ljubljana, Slovenia
- **55th anniversary** of THE ESTABLISHMENT OF INSTITUTE OF MATERIALS
RESEARCH Slovak Academy of Sciences, Košice, Slovakia
- **50th anniversary** of THE ESTABLISHMENT OF: – TECHNICAL FACULTY,
UNIVERSITY OF RIJEKA, Rijeka, Croatia – FACULTY OF ELECTRICAL
ENGINEERING, MECHANICAL ENGINEERING AND NAVAL
ARCHITECTURE, UNIVERSITY OF SPLIT, Split, Croatia
- **20th anniversary** of INTENSE INTERNATIONAL COOPERATION OF
CROATIAN METALLURGICAL SOCIETY, Zagreb, Croatia

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At the 9th International Symposium of Croatian Metallurgical Society «Materials and Metallurgy» participate following countries:

- | | | |
|---------------------------|-----------------|-------------------------------|
| 1. Argentina | 17. Germany | 33. Russia |
| 2. Austria | 18. Hungary | 34. Serbia |
| 3. Belgium | 19. India | 35. Serbia/Republic of Kosovo |
| 4. Belarus | 20. Indonesia | 36. Singapore |
| 5. Benelux | 21. Italy | 37. Slovakia |
| 6. Bosnia and Herzegovina | 22. Japan | 38. Slovenia |
| 7. Brasil | 23. Korea | 39. South Africa |
| 8. Bulgaria | 24. Lithuania | 40. Spain |
| 9. Chile | 25. Macedonia | 41. Sweden |
| 10. China | 26. Malaysia | 42. Thailand |
| 11. Croatia | 27. Montenegro | 43. Turkey |
| 12. Czech Republic | 28. Netherlands | 44. Ukraine |
| 13. England | 29. Philippine | 45. USA |
| 14. Egypt | 30. Poland | 46. Vietnam |
| 15. Finland | 30. Portugal | |
| 16. France | 32. Romania | |

ORGANIZER

CROATIAN METALLURGICAL SOCIETY (CMS)

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- European Steel Institute Confederation (ESIC)
- European Steel Federation (ESF)
- World Steel Association (WSA)
- Ministry of Science, Education and Sport Republic of Croatia
- Croatian Chamber of Economy
- Sisak – Moslavina County
- University of Rijeka, Technical Faculty
- University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture

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- University of Mining and Metallurgy, Faculty of Foundry Engineering, Krakow
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- Technical University of Košice, Faculty of Mechanical Engineering
- Technical University of Košice, Berg Faculty
- University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture
- University of Osijek, Faculty of Mechanical Engineering, Slavonski Brod
- VŠB Technical University of Ostrava

- Institute of Metals and technology, Ljubljana
- Institute of Materials Research of the Slovak Academy of Sciences in Košice
- Steel Works Split
- Moscow State Steel and Alloys Institute
- Physico-Technical Institute National Academie of Science, Minsk
- Politehnica University of Bucharest
- Institute of Metallurgy "Kemal Kapetanović", Zenica
- Pisarenko Institute of Problems of Strength NASU, Kiev
- Dnepropetrovsk National University
- Czech Steel Federation
- Slovak University of Technology in Bratislava, Faculty of Materials Science and Technology
- Vatrostalna Sisak d.d.
- TLM - TPP (Tvornica prešanih proizvoda)
- High Technical School - Bjelovar
- University of Applied Sciences, Slavonski Brod
- University of Applied Sciences, Vukovar
- University of Applied Sciences, Varaždin
- Croatian Chamber of Economy County Chamber Šibenik
- ISIJ - The Iron and Steel Institute of Japan
- JERN - Jernkontoret, Sweden
- SRM Romanian Society for Metallurgy
- SITPH - Association of Polish Metallurgical Engineers
- HOOGO VENS, 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 Acero, Chile
- Société Francaise de Métallurgie et de Materiaux
- The Institut of Materials, Minerals and Mining, England
- 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 Metallurgy
- Iron and Steel Institute of Thailand
- Vietnam Steel Corporation

CO-OPERATION WITH ORGANIZATIONS

- 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

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V. Živković Croatia

Ladies and gentlemen! Dear colleagues and friends!

Welcome to the Croatia, to the town of Šibenik, to the our 9th International Symposium “Materials and Metallurgy”. The reception of the 9th Symposium by international associations has shown that the Symposium has become a traditional place for the gathering of the world’s experts and scientists of various profiles: metallurgists, physicists, chemists, mechanical engineers, and so on, who can and want to contribute so that metallurgy in Croatia receives the same attention as it does in the world.

We wish that you feel like home here, that you learn about the historical monuments and, most of all, get to know the people.

The sights and natural beauties of the town Šibenik will amaze and inspire you, and we shall do our best to make your stay in Croatia pleasant and memorable.

Thank you for your participation in 9th International Symposium “Materials and Metallurgy”.

ORGANIZER

CROATIAN METALLURGICAL SOCIETY (CMS)

President of CMS

Acad.Prof.D.Sc. Ilija Mamuzić, Prof.h.c.D.h.c.



The Hotel – Tourist Colony “Solaris”

THE AIM OD SYMPOSIUM

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

P R O G R A M M E

Sunday, June 20. 2010.

- 2⁰⁰ – 6³⁰ PM Registration
6³⁰ – 7⁰⁰ PM “Welcome reception” sponsor by Solaris Hotels

Monday, June 21. 2010.

- 7⁰⁰ – 12⁰⁰ AM Registration
PLENARY SESSION (The Congress Hall)
9⁰⁰ – 10³⁰ AM **Opening Ceremony**
Opening of the Conference
Greeting of the Conference

INVITE PLENARY LECTURES

Chairmen: F. Vodopivec, R. Kawalla, T. Mikac, Z. Širić, I. Pučko

- 10³⁰ – 10⁵⁵ AM **D. Vojtech**; *Institute of Chemical Technology, Prague, Czech Republic*
Challenges for research and development of new aluminum alloys
- 10⁵⁵ – 11²⁰ AM **P. Chowaniec, J. Mannheim***, **J. Raab****, **R. Talarek*****; *Arcelor Mittel, Ostrava, *Steelworks of Trinec; **Czech Steel Federation, Prag, Czech Republic, ***Polish Steel Association, Poland*
Steel Industry in the New EU Members in Comparison with the Global Trends
- 11²⁰ – 11⁵⁰ AM Coffe break (sponsor by TLM-TPP – Šibenik, Croatia)
- 11⁵⁰ – 12¹⁵ AM **J. Kliber, I. Mamuzić***; *Faculty of Metallurgy and Materijals Engineering, VŠB-TU, Ostrava, Czech Republic; *Faculty of Metallurgy University of Zagreb Sisak, Croatia,*
Selected new technologies and research themes in materials forming.
- 12¹⁵ – 12⁴⁰ PM **R. Kawalla, M. Graf, K. Tokmakov**; *Institute of Metal Forming, TU Bergakademie Freiberg, Gemany*
Simulation system of multistage hot rolling of flat product

12⁴⁰ – PM **Presentation of Firms**

INVITE PLENARY LECTURES

Chairmen: M. Jenko, I. Alfirević, S. Dobatkin, I. Samardžić, I. Kliber

4⁰⁰ – 4²⁵ PM **F. Vodopivec, B. Šuštaršič, J. Vojvodič-Tuma, G. Kosec***; *Institute of Metals and technology, Ljubljana; *SIJ, Acroni d.d. Jesenice, Slovenia*
Charpy notch toughness and hardness of reheated martensite and lower bainite

4²⁵ – 4⁵⁰ PM **S. Dobatkin, J. Zrnik*, I. Mamuzić****; *Baikov Institute of Metallurgy and Materials Science, Russian Academy of Sciences, Moscow, Russia; *COMTES FHT, Plzen, Czech Republic; **Faculty of metallurgy University of Zagreb, Sisak, Croatia,*
Development of SPD Continuous Processes for Strip and Rod Production

4⁵⁰ – 5¹⁵ PM **Yu. G. Gulyayev, YE. I. Shyfrin*, I. Mamuzić**, Yu. Garmashev***, N.A. Maximova******
*National Metallurgical Academy, Dnepropetrovsk, Ukraine, *Tube Metallurgical Company, Moscow, Russia, **Metallurgical Faculty, University of Zagreb, Sisak, Croatia, ***OJSC “Interpipe NTZ”, Dnepropetrovsk, Ukraine, ****National Mining University, Dnepropetrovsk, Ukraine*
The modern trends of development of the pipe and tube industry

5¹⁵ – 5⁴⁰ PM **F. Vodopivec**; *Institute of Metals and Technology, Ljubljana, Slovenia*
Review of the Papers of Materials and Metallurgy (section “A”, “B”, “C”, “D”)

5⁴⁰ PM **Discussion**

6³⁰ PM **Meeting of Editorial Board of Journal *Metalurgija* (Sponsor by Vatrostalna Sisak d.d., Sisak, Croatia)**

Tuesday, June 22.2010.

POSTERS

Chairmen: *F. Vodopivec, M. Buršak, B. Kosec, I. Vitez, P. Ševc*

9⁰⁰ - 12⁰⁰ AM MATERIALS – SECTION “A”

Break for lunch

POSTERS

Chairmen: *J. Raab, F. Chowanec, A. Gordienko, M. Holtzer, K. Kostur*

3⁰⁰ – 6⁰⁰ PM PROCESS METALLURGY – SECTION “B“

6⁰⁰ PM Annual Assembly of Croatian Metallurgical Society – call for participation

(Sponsor by Vatrostalna Sisak d.d., Sisak, Croatia)

Wednesday, June 23. 2010.

POSTERS

Chairmen: *T. Kvačkaj, J. Kliber, Yu. Gulyayev, M. Besterci, B. Šuštaršič*

9⁰⁰ – 12⁰⁰ AM PLASTIC PROCESSING – SECTION “C”

Lunch break

Chairmen: *M. Ikonić, D. Novak, C. Kolmasiak, D. Malindžak, I.E. Uskova*

3⁰⁰ – 6⁰⁰ PM METALLURGY AND RELATED TOPICS – SECTION “D”

**6⁰⁰ PM ROUND TABLE – DISCUSSION,
THE ACHIEVEMENTS, THE CONCLUSIONS AND CLOSING
of 9th International Symposium “Materials and Metallurgy”**

Thursday, June 24. 2010.

10⁰⁰ – 12⁰⁰ AM VISITING OLD TOWN OF ŠIBENIK, AND CITY ŠIBENIK

**For group with 50 or more visitors have to register at the
Registration**

Office not later Tuesday, June 22. 2010. to 12⁰⁰ AM.

**10th INTERNATIONAL SYMPOSIUM
OF
CROATIAN METALLURGICAL SOCIETY**

**11th INTERNATIONAL SYMPOSIUM
OF
CROATIAN METALLURGICAL SOCIETY**

For all information please see:

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

S H M D `2012.

S H M D `2014.

MATERIALS AND METALLURGY

CALL FOR PARTICIPATION

The 10th and 11th Symposiums are also in the “Calendar of International Conferences for 2012 and 2014.”
(Meeting of World Metallurgical Society’s, Düsseldorf, November 2009).

CROATIA, June, 2012., 2014.

