

**CROATIAN METALLURGICAL SOCIETY  
HRVATSKO METALURŠKO DRUŠTVO**

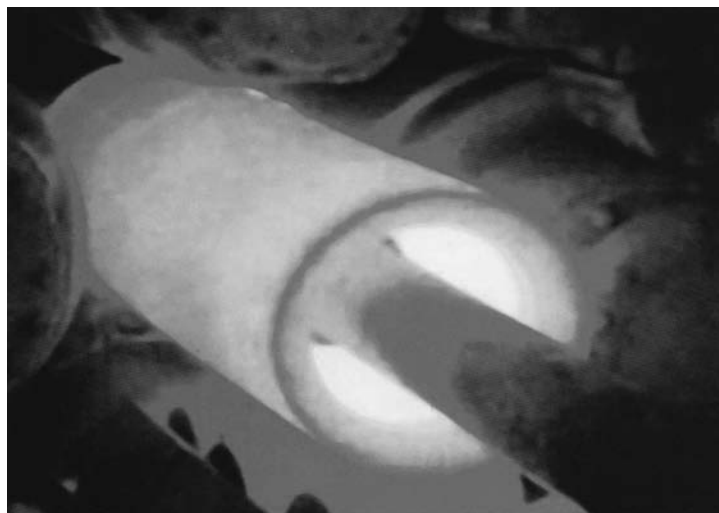
**9<sup>th</sup> INTERNATIONAL  
9. MEĐUNARODNI**

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

***S H M D '2010.***

**MATERIALS AND METALLURGY  
MATERIJALI I METALURGIJA**

**SUMMARIES OF LECTURE  
SAŽECI PREDAVANJA**



**Šibenik, CROATIA, June 20 – 24 2010.  
ŠIBENIK, HRVATSKA, 20. – 24. lipnja 2010.  
HOTELSKO NASELJE SOLARIS HOLIDAY RESORT**

**THE AIM OF SYMPOSIUM**

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

9<sup>th</sup> International Symposium of Croatian Metallurgical Society «Material and Metallurgy» was held as a part of:

- **150<sup>th</sup> anniversary** of THE ESTABLISHMENT OD STEEL INSTITUTE VDEH, DÜSSELDORF, Germany
- **90<sup>th</sup> anniversary** of THE ESTABLISHMENT OF DNEPROPETROVSK NATIONAL UNIVERSITY, Dnepropetrovsk, Ukraine
- **70<sup>th</sup> anniversary** of STUDIES OF METALLURGY OF UNIVERSITY OF LJUBLJANA, Slovenia
- **60<sup>th</sup> anniversary** of THE ESTABLISHMENT OF INSTITUTE OF METALS AND TECHNOLOGY, Ljubljana, Slovenia
- **55<sup>th</sup> anniversary** of THE ESTABLISHMENT OF INSTITUTE OF MATERIALS RESEARCH Slovak Academy of Sciences, Košice, Slovakia
- **50<sup>th</sup> 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
- **20<sup>th</sup> anniversary** of INTENSE INTERNATIONAL COOPERATION OF CROATIAN METALLURGICAL SOCIETY, Zagreb, Croatia

**At the 9<sup>th</sup> International Symposium of Croatian Metallurgical Society «Materials and Metallurgy» had participated 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     |                               |

All of the lectures:

Plenary lectures	8
Materials – Section «A»	261
Process Metallurgy – Section «B»	94
Plastic Processing – Section «C»	64
Metallurgy and Related Topics – Section «D»	114
	Σ 541

**NAPOMENA:**

Mnogi autori/koautoru nisu se pridržavali zadanog oblika i dužine sažetka svojih referata. Znanstveni odbor je izveo usuglašavanje, te isprika ako postoje nedostaci. Moguće je i možebitni izostanak nekog sažetka. Iznovice isprika.

*Organizator*

**NOTE:**

Many authors/co-authors have not observed the given form and length of abstracts of their reports. Scientific board has made adjustments, so we apologize if there are any faults. An abstract might be failing. Accept our apology again.

*Organizer*

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- European Steel Institute Confederation (ESIC)
- European Steel Federation (ESF)
- World Steel Association (WSA)
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- Stahlinstitut VDEh, Germany
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- 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
- HOOGOEVENS, 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
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