

**I. MAMUZIĆ – PRESIDENT
SCIENTIFIC COMMITTEE**

Survey of 10th International Symposium of Croatian Metallurgical Society (CMS)

S H M D ` 2012

„Materials and Metallurgy“
<http://public.carnet.hr/metalurg>

**Šibenik 2012, June, 17 – 21
Solaris Beach Resort, Croatia**

10th International Symposium of Croatian Metallurgical Society „Material and Metallurgy“ was held as a part of:

- **60th anniversary** of THE FOUNDATION OF CROATIAN METALLURGICAL SOCIETY (from Society of Engineers and Technician Steel works Sisak, 1952 y)
- **60th anniversary** of THE ESTABLISHMENT OF TECHNICAL UNIVERSITY, Košice, Slovakia, 1952 y
- **50th anniversary** of THE ESTABLISHMENT OF MECHANICAL ENGINEERING STUDY PROGRAMS UNIVERSITY OSIJEK, Slavonski Brod, Croatia, 1952 y
- **50th anniversary** of THE FOUNDATION AND PUBLICATION OF THE JOURNAL METALURGIJA (1962 y), Zagreb, Croatia

The following countries participated at the 10th International Symposium of Croatian Metallurgical Society “Materials and Metallurgy”:

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|---------------------------|---------------|-------------------------------|
| 1. Argentina | 17. Germany | 33. Romania |
| 2. Austria | 18. Hungary | 34. Russia |
| 3. Belgium | 19. India | 35. Serbia |
| 4. Belarus | 20. Indonesia | 36. Serbia/Republic of Kosovo |
| 5. Benelux | 21. Italy | 37. Singapore |
| 6. Bosnia and Herzegovina | 22. Japan | 38. Slovakia |
| 7. Brasil | 23. Korea | 39. Slovenia |
| 8. Bulgaria | 24. Lithuania | 40. South Africa |
| 9. Chile | 25. Macedonia | 41. Spain |

10. China	26. Malaysia	42. Sweden
11. Croatia	27. Mexico	43. Thailand
12. Czech Republic	28. Montenegro	44. Turkey
13. England	29. Netherlands	45. Ukraine
14. Egypt	30. Philippine	46. USA
15. Finland	31. Poland	47. Vietnam
16. France	32. Portugal	48. Wales, United Kingdom

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

TOPICS OF THE SYMPOSIUM WERE :

Materials

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

Metallurgy

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

There were 641 reports, over 1100 authors and coauthors registered for the 10 th International Symposium of the Croatian Metalurgical Society.

327 participants were present at the Symposium. Symposium activity took place through plenary lectures and four sections (poster):

Plenary lectures	9
Materials – Section „A“	321
Process Metallurgy – Section „B“	131
Plastic Processing – Section „C“	79
Metallurgy and Related Topics – Section „D“	101

= 641

For the plenary lectures research topics were selected relating partly to the new materials and partly to the increase of efficiency of metallurgical procedures, as well as improving of research of ferrous and non ferrous metals, selected new technologies and simulation in material forming, several plastic deformation etc.

PLENARY LECTURES WERE

- **J. Raab, J. Mannheim**; Czech Steel Federation, Prag, Trinecke železarny, Trinec, Czech Republic, **Dynamics in the Development of Global Steel Production & Consumption.**
- **P.Tardy**; Association of the Hungarian Steel Industry, Budapest, Hungary, **Clean technologies in the steel industry.**
- **M.Holtzer, R. Danko, S. Žymankowska-Kumon**; AGH – University of Science and Technology, Krakow, Poland, **Foundry industry – corrent state and future development**
- **M. Godec, F. Vodopivec, M. Jenko**; Institute of Metals and Technology (IMT), Ljubljana, Slovenia, **Progress of use of advanced research equipment IMT, Ljubljana,Slovenia**
- **R. Kawalla, M. Schmidtchen, M. Graf**; Institute of metal forming at TU Bergakademie Freiberg, Germany, **Simulation of plastic deformation process**
- **S.V.Dobatkin, I.Mamuzić; A.A.Baikov** Institute of Metallurgy and Materials Science, Moscow Russia; University of Zagreb, Zagreb, Croatia, **Structure and properties of ultrafine – grained aluminium alloys and possibilities of their application**
- **R.Fabik, J.Kliber, I. Mamuzić, T.Kubina,S.A.Aksenov**; VSB – TU Ostrava, Ostrava, Czech Republic; University of Zagreb, Zagreb, Croatia, MIEM, Moscow, Russia, **Mathematic modelling of flat and shape hot rolling based on Finite Element methods**
- **D.Malindžak**; BERG Faculty, Technical University of Košice, Košice, Slovakia, **Application of logistic principles in metallurgical production.**
- **M.Ikonić**; University of Rijeka, Croatia, **Case study in metallurgy plants strategy formulation.**

Comprehensive outline of plenary reports (the 3 reports) were published in the journal Metalurgija 51 (2012) 3, 337 – 348 as the articles. The summaries of all lectures of 10 th Symposium were published also in Metalurgija 51 (2012) 3, 377 – 432.Total holded 303 lectures in 10th symposium.

For this symposium the reports were prepared by the authors and coauthors from various world universities, institutes, academies and companies. It is to be emphasised that the scientists from Croatian universities (Zagreb, Rijeka, Osijek) participated in the symposium.

In the time 10 th Symposium was also held :

Meeting of Editorial Board of Journal Metalurgija with Promotion of Monograph „Metallurgy, always prosperity for humanity“ June18, 2012, 12 AM.

Minutes of this Meeting, Metalurgija 52 (2013) 1.

Annual Assembly of Croatian Metallurgical Society (15 Participants, delegates of Institute, University etc. June 19, 2012, 6,00 PM), Metalurgija 52 (2013)1.

More than 150 participants were included in a round table session on the achievements, conclusions and closing of the 10 th International Symposium „Materials and Metallurgy“ (June 20, 6,00 PM).

In the discussions it was confirmed that the Symposiums organized by Croatian Metallurgical Society have become traditional assembly of experts and scientists of various profiles : metallurgists, geologists, physicists, chemists, mechanical engineers et.

Based on the analysis and evaluation of the subject matter of the symposium, the symposium has been appraised positively and it has been acknowledged that it has its place in the international exchange of knowledge.

It is reasonable to conclude that the demonstrated results of scientific and professional investigation accompanied by the complete and quality manifestations, especially discussions at the round table prove that the organizing of the 10th International Symposium of Croatian Metallurgical Society „Materials and Metallurgy“ in Šibenik 2012 June 17 – 21 was justified. It is important to emphasize that the participants will have wonderful memories of Šibenik and Solaris Hotels.

Based on the agreement of Meeting of World Metallurgical Societys, Dusseldorf, November 2009, 2010 y, and the conclusion of the round table, the next 11th International Symposium of Croatian Metallurgical Society „Materials and Metallurgy“ will be held in 2014 June 22 – 26, Solaris Beach Resort, Šibenik, Croatia.

**First circular – call for papers SHMD' 2014
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