

Survey of 12th International Symposium of Croatian Metallurgical Society (CMS)

SHMD `2016

»Materials and Metallurgy«

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

Šibenik 2016, June, 19 – 23
Solaris Holiday Resort, Croatia

Based on the Agreement of Meetings of World Metallurgical Societies,
Dusseldorf 2010 – 2015 y

12th International Symposium of Croatian Metallurgical Society “Materials and Metallurgy”
was held as part of:

65th anniversary of THE ESTABLISHMENT OF TECHNICAL UNIVERSITY OF KOŠICE,
Košice, Slovakia, 1952 y

65th anniversary of THE FOUNDATION OF CROATAN METALLURGICAL SOCIETY
(from Society of Engineers and Technician Steel Works Sisak), Sisak, Croatia, 1952 y

55th anniversary of THE ESTABLISHMENT OF MECHANICAL ENGINEERING STUDY,
PROGRAMMS UNIVERSITY OSIJEK, Slavonski Brod, Croatia, 1962 y

55th anniversary of THE FOUNDATION AND PUBLICATION OF THE JOURNAL METALURGIJA,
Sisak, Croatia, 1962 y

At the 12th International Symposium of Croatian Metallurgical Society “Materials and Metallurgy” had participated following countries:

- | | | |
|---------------------------|-----------------|------------------|
| 1. Argentina | 17. Germany | 33. Portugal |
| 2. Austria | 18. Greece | 34. Romania |
| 3. Belgium | 19. Hungary | 35. Russia |
| 4. Belarus | 20. India | 36. Serbia |
| 5. Benelux | 21. Indonesia | 37. Singapore |
| 6. Bosnia and Herzegovina | 22. Italy | 38. Slovakia |
| 7. Brazil | 23. Japan | 39. Slovenia |
| 8. Bulgaria | 24. Kazakhstan | 40. South Africa |
| 9. Chile | 25. Korea | 41. Spain |
| 10. China | 26. Lithuania | 42. Sweden |
| 11. Croatia | 27. Macedonia | 43. Thailand |
| 12. Czech Republic | 28. Malaysia | 44. Turkey |
| 13. England | 29. Montenegro | 45. Ukraine |
| 14. Egypt | 30. Netherlands | 46. USA |
| 15. Finland | 31. Philippine | 47. Vietnam |
| 16. France | 32. Poland | |

The aim of this Symposium is to point out 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
- Technologies
- Energetics
- Ecology in Metallurgy
- Quality Assurance and Quality Management

There were 424 + Rejected 122; Total 546 reports; over: 1100 Authors and Coauthors registered for the 12 th International Symposium of the Croatian Metallurgical Society.

285 Participants were present at the Symposium.

Symposium activity took place through plenary lectures and four sections (posters) :

Plenary lectures	7
Materials – Section »A«	165
Process Metallurgy – Section »B«	99
Plastic Processing – Section »C«	43
Metallurgy and Related Topics – Section »D«	109

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 LECTURE WERE

- J. Raab, J. Mannheim, Czech Republic**
Another milestone year for steel industry?
- M. Holtzer, R. Danko, A. Kmita, Poland**
The state of art and foresight of world s casting production.
- P. Fajfar, M. Fazarinc, G. Kugler, M. Terčelj, Slovenia**
Laboratory assessment of thermal fatigue resistance.
- M. Schmidtchen, R. Kawalla, Germany**
Fast numerical simulation of heavy plate hot rolling processes using a multiscale layer model.
- J. Kliber, Czech Republic**
Advanced forming technology
- I. Samardžić, M. Dunder, B. Despotović, T. Marsenić, Croatia**
Modern materials use in construction of thermal power plants.

I. Alfirević, Croatia

Advanced in mechanical and its influence on science, technology and society.

The summaries of all lectures of 12 th Symposium were published also in Metalurgija “Book of Abstracts“ 55 (2016) 3, 549 - 576. Total holded 269 Lectures at the 12 th 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, Osijek) participated in the symposium.

In the time 12 th Symposium was also held :

- **Annual Assembly of Croatian Metallurgical Society;** June 20, 2016, 1,00 PM, Hall Prvić, 14 Participants, survey, Metalurgija 56 (2017) 1.
- **Meeting of Editorial Board of Journal Metalurgija;** June 20, 2016 6,30 PM, Šibenik, Hall Prvić with election of Acad. Ilija Mamuzić for Editor – in – chief of Journal Metalurgija 2016 – 2020; Minutes of this Meeting, Metalurgija 56 (2017) 1

More than 150 participants were included in a round table session on the achievements, conclusions and closing of the 12 th International Symposium “Materials and Metallurgy“ (June 22, 6,00 PM Hall Prvić).

In the discussions it was confirmed that the Symposium organizes 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 analysys and evolution 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 12 th International Symposium of Croatian Metallurgical Society “Materials and Metallurgy“ in Šibenik, 2016 June 19 – 23 was justifiend. E specially has to be emphasized that the participants will keep wonderful memories of Šibenik and Solaris Hotels.

Based on the agreement of Meeting of World Metallurgical Societys, Dusseldorf, November 2012 y – 2015 y; and the conclusion of the round Table, the next 13 th International Symposium of Croatian Metallurgical Society “Materials and Metallurgy“ will be held 2018 – Šibenik, June 17 – 22.