

**Survey of 11 th International Symposium of Croatian Metallurgical Society (CMS)**

# **SHMD `2014**

**»Materials and Metallurgy«**

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

**Šibenik 2014, June, 22 – 26  
Solaris Holiday Resort, Croatia**

**11th International Symposium of Croatian Metallurgical Society »Material and Metallurgy«  
was held as a part of:**

**95 th anniversary of the Foundation of the Technical Faculties University of Zagreb  
(1919 – 2014), Croatia**

**95 th anniversary of the Foundation of Dnepropetrovsk National University  
(1919 – 2014), Ukraine**

**75 th anniversary of Studies of Metallurgy University of Ljubljana  
(1939 – 2014), Slovenia**

**65 th anniversary of the Establishment of Institute of Materials Research, Slovak  
Academie of Sciences (1950 – 2014)**

**35 th anniversary of the Foundation of Mechanical Engineering Faculty, Slavonski Brod,  
University of Osijek (1979 - 2014)**

**At the 11 th 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 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

There were 544 + Rejected 149; Total 689 reports; over: 1100 Authors and Coauthors registered for the 11 th International Symposium of the Croatian Metallurgical Society.

301 Participants were present at the Symposium.

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

Plenary lectures	7
Materials – Section »A«	151
Process Metallurgy – Section »B«	209
Plastic Processing – Section »C«	38
Metallurgy and Related Topics – Section »D«	139

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 Steel Federation, \* Steelworks of Trinec, Czech Republic*

**Changes of the position of the Steel Industry by the eyes of the Central European**

**B. Kosec, J. Budak\*, G. Kosec\*\***, *University of Ljubljana, Faculty of Natural Science and Engineering, Slovenia, \*University of Novi Sad, Faculty of Technical Science, Serbia, \*\*Acroni d.o.o. Jesenice, Slovenia*

**Life cycle assessment (LCA) method as a tool in Steel production**

**M. Holtzer, R. Danko, S. Żymankowska – Kumon;** *AGH – University of Science and Technology,*

**The state of art and foresight of world s casting production**

**M. Ullmann, K. Neh, R. Kawalla;** *TU Bergakademie Freiberg, Institute of metal Forming, Freiberg, German*  
**Development of rolling technology for twin – roll – cast magnesium strips**

**J. Kliber;** *VSB – Technical University of Ostrava, Ostrava, Czech Republic*

**Some viewpoints of materials forming technology**

**F. Vodopivec, B. Žužek;** *Institute of metals and technology, Ljubljana, Slovenia*

**The concept of disjunctive matrix stationary creep of high chromium creep resistance steels**

**I. Samardžić, B. Despotović, M. Dunder, K. Šimunović;** *University of Osijek, Mechanical Engineering Faculty, Slavonski Brod, Croatia*

**Modern materials and welding processes in steam-boilers production**

The Summaries of all lectures of 11 th Symposium were published also in *Metalurgija* »Summaries of Abstracts« 53 (2014) 3,399-431. Total holded 289 Lectures at the 11 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 11 th Symposium was also held:

- **Meeting of Editorial Board of Journal Metalurgija;** June 23, 2014 6,00 PM, Šibenik, Hall Žirje with election of Acad. Ilija Mamuzić for Editor-in-chief of *Journal Metalurgija* 2014 – 2018; Minutes of this Meeting, *Metalurgija* 54 (2015) 1

- **Election Assembly of Croatian Metallurgical Society;** June 24. 2014, 6,00 PM, Hall Prvić, 29 Participants, Delegates of Institute, University etc., *Metalurgija* 54 (2015) 1

More than 150 participants were included in a round table session on the achievements, conclusions and closing of the 11 th International Symposium »Materials and Metallurg« (June 25, 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 analysis 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 11 th International Symposium of Croatian Metallurgical Society »Materials and Metallurgy« in Šibenik, 2014 June 22 – 26 was justified. Especially 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 Societies, Dusseldorf, November 2009 y; 2010 y; 2012 y; and the conclusion of the round Table, the next 12 th International Symposium of Croatian Metallurgical Society »Materials and Metallurgy« will be held 2016 – Zagreb June, 19 – 23. First Circular – Call for Papers, SHMD 2016, *Metalurgija* 54 (2015) 1, also 5 WEB sites.



Dio sudionika 11. Simpozija /  
Part of Participants of 11 th Symposium