SCIENTIFIC COMMITTEE

I. Mamuzić – President

Survey of 9th International Symposium of Croatian Metallurgical Society (CMS)

S H M D '2010.

"Materials and Metallurgy" http://public.carnet.hr/metalurg

Šibenik 2010, June 20-24 Solaris Holiday Resort, Croatia

 9^{th} International Symposium of Croatian Metallurgical Society «Materials and Metallurgy» was held as a part of:

- 150th anniversary of THE ESTABLISHMENT OD STEEL INSTITUTE VDEh,
 DÜSSELDORF, Germany
- 90 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

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

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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	

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 541 reports, over 900 authors and coauthors registered for the 9th International Symposium of the Croatian Metallurgical Society.

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

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

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 Al-alloys selected new technologies and simulation in material forming, severe plastic deformation etc.

PLENARY LECTURE WERE:

D. Vojtech; *Institute of Chemical Technology, Prague, Czech Republic.* **Challenges for research and development of new aluminum alloys.**

F. Chowaniec*, J. Mannheim**, J. Raab***, R. Talarek****; Arcelor Mittal, 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. J. Kliber, I. Mamuzić*; Faculty of Metallurgy and Materials Engineering, VŠB-TU, Czech Republic; * Faculty of Metallurgy University of Zagreb, Sisak, Croatia. Selected new technologies and research themes in materials forming. R. Kawalla, M. Graf, K. Tokmakov; Institute for Metal Forming, TU Bergakademie Freiberg, Germany. Simulation system of multistage hot rolling process of flat products. F. Vodopivec, B. Šuštaršič, J. Vojvodič-Tuma, G. Kosec*; Institute of Metals and technology, Ljubljana, Slovenia; *SIJ, Acroni d.d. Jesenice, Slovenia. Charpy notch toughness and

S. Dobatkin, J. Zrnik*, I. Mamuzic**; Baikov Institute of Metallurgy and Materials Science, Russian Academy of Sciences, Moscow, Russia; *COMTES FHT, Plzen, Czech Re-

hardness of reheated martensite and lower bainite.

public; **University of Zagreb, Sisak, Croatia. Development of SPD Continuous Processes for Strip and Rod Production.

Yu. G. Gulyayev, YE. I. Shyfrin*, I. Mamuzić**, D. YU. Garmashev***, N. A. Maximova****; National Metallurgical Academy, Dnepropetrovsk, Ukraine; *Tube Metallurgical Company, Moscow, Russia; ** Metallurgical Faculty, University of Zagreb, Croatia; *** OJSC "Interpipe NTZ", Dnepropetrovsk, Ukraine; *** National Mining University, Dnepropetrovsk, Ukraine. The modern trends of development of the pipe and tube industry.

I. Samardžić; Faculty of Mechanical Engineering University of Osijek, Slavonski Brod, Croati. Review of papers Materials and Metallurgy (section "A", "B", "C", "D").

Comprehensive outline of plenary repors (the 6 reports) were published in the journal Metalurgija 49 (2010) 3, 149-154; 165-190 as the articles. The summaries of all lectures of 9th Symposium were published also in Metalurgija 49 (2010) 3, 191-240.

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, Split, Rijeka, Osijek) participated in the symposium.

In the time of 9th Symposium was also held:

Meeting of International Editorial Board of the Journal Metalurgija, June 21, 2010; 6^{30} PM

Minutes of this Meeting, Metalurgija 49 (2010) 4, 291-292:

- Meeting of Menaning Board of Croatian Metallurgical Society, June 22, 2010; 1.00 PM
- Annual Election Assembley of Croatian Metallurgical Society (20 Participants, delegates of Institute, University etc. June 22, 2010; 600PM

More than 150 participants were included in a round table session on the achievements, conclusions and closing of the 9th International symposium "Materials and Metallurgy" (June 23; 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 etc.

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 9th International symposium of Croatian Metallurgical Society "Materials and Metallurgy" in Šibenik 2010, June 20-24 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 Societys, Düsseldorf, November 2009 y, and the conclusion of the round table, the next 10th International Symposium of Croatian Metallurgical Society "Materials and Metallurgy" will be held 2012 – June 17-21.