

8th International Symposium of Croatian Metallurgical Society

S H M D '2008.

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

Šibenik 2008, June 22 - 26, Solaris Holiday Resort, Croatia

The Croatian Metallurgical Society have the responsibility for the development and future of Croatia. Its purpose is contributing to Croatia's advancement, based on the promotion of metallurgy. This is chief goal and we shall realize it by linking all the various sciences and points of view, aware that the advancement and development of Croatia can only be achieved through the united efforts of all.

In order to contribute to the metallurgical restructuring and development program the Croatian Metallurgical Society held, the first Symposium “Materials and Metallurgy” in Zagreb, February 16 - 18, 1994. The intention to hold that Symposium was announced in *Metalurgija* 32 (1993) 4, 122 [1] in agreement with Verein Deutscher Eisenhüttenleute (VDEh). Over 88 lectures, a half of which was attended by more than 250 scientists and experts from several European metallurgical associations. Summaries of lectures were published in the *Journal Metalurgija* 32 (1993) 4, 185-194 [2].

The Symposium received due attention in the public, a detailed report about the Symposium was published in *Stahl und Eisen* 114 (1994) 6, 80 [3].

Croatian Metallurgical Society held second Symposium “State and Development of Plastic Metal Processing”. Along with the announcement of this Symposium to the Croatian and foreign public in *Metalurgija* 34 (1995) 3, 57-59 a short historical survey of metallurgical evolution in Croatia was given [4].

The Symposium was inserted in the “Calendar of International Conferences” (through Verein Deutscher Eisenhüttenleute - Düsseldorf and Institute of Materials London) and held in the town of Split on June 20-22, 1996.

150 lectures (105 by participants from abroad and 45 by Croatian participants) were read at the Symposium,

and more than 300 people from twelve countries were attending. A detailed report from this Symposium was again provided by *Stahl und Eisen* 116 (1996) 9, 41-42 [5]. Summaries of all lectures were published in the journal *Metalurgija* 35 (1996) 2, 105-126 [6].

The announcement of 3rd Symposium State and Development of Plastic Metal Processing to the Croatian and foreign public in *Metalurgija* 36 (1997) 3, 135-140, the aim and topics of the Symposium and location, Hotels Solaris Šibenik was given (from June 25 - 27, 1998.) [7].

At the 3rd International Symposium 300 participants from 15 countries were present. There were read 192 reports. Symposium activities proceeded through plenary sections (plenary lectures and Round table sessions “Metallurgy today, tomorrow - State in Croatia”) and four sections (posters).

All the plenary lectures also were published in the journal *Metalurgija* 37 (1998) 2, 57-99 [8], and the Summaries of all lectures in the same Volume, 103-132 [9].

A detailed report from 3rd Symposium was provided in the journal *Metalurgija* 37 (1998) 4, 195-198 [10] and again in *Stahl und Eisen* 118 (1998) 11, 95-96 [11].

The intention to hold 4th Symposium of Croatian Metallurgical Society “Materials and Metallurgy” was announced in *Metalurgija* 38 (1999) 4, 199-204 [12]. 4th Symposium also had already been inserted in the “Calendar of International Conferences” for 2000 (Meeting of World metallurgical Societies, Düsseldorf 11-13 november 1998).

There were 333 reports from 29 countries, 700 authors and coauthors registered for the fourth International Symposium of the Croatian Metallurgical Society.

380 participants from 19 countries were present at the symposium. Symposium activity took place through plenary lectures and three sections (poster).

Comprehensive outline of plenary reports also were published in the journal *Metalurgija* 39 (2000), 3, 131-189 [13] and the Summaries of all lectures in the same volume, 191-224 [14].

A detailed report from 4th Symposium of Croatian Metallurgical Society "Materials and Metallurgy" Opatija 2000. June, 25 - 29 was provided in the Journal *Metalurgija* 40 (2001) 1, 61-63 [15].

Based on the conclusion of the round table the fifth International Symposium of Croatian Metallurgical Society was announced in *Metalurgija* 40 (2001) 3, 127-133, and was held in Šibenik, Solaris Hotels, 23 - 27.06.2002. [16].

The 5th Symposium had already been inserted in the "Calendar of International Conferences for 2002.", (Meeting of World Metallurgical Societys, Düsseldorf, November 1999 and November 2000.

There were 375 reports from 30 countries, 700 authors and coauthors registered for this Symposium. 300 participants from 20 countries were present at the Symposium. Symposium activity took place through plenary lectures and four sections (posters).

Comprehensive outline of plenary reports (the first 11 reports) were published in the journal *Metalurgija* 41 (2002) 3, 131-214 as the article and the summaries of all lectures in the same volume, 215-268 [17].

Review of the papers of Poster section were also published in the journal *Metalurgija* 41 (2002) 3:

- review of the papers of materials - section "A" *Metalurgija* 41 (2002) 3, 219 [18];
- review of the papers in process metallurgy - section "B" *Metalurgija* 41 (2002) 3, 237-238 [19];
- review of the papers of plastic processing - section "C" *Metalurgija* 41 (2002) 3, 254-255 [20];
- review of the papers of metallurgy and related topics - section "D" *Metalurgija* 41 (2002) 3, 265 [21].

A detailed report from 5th Symposium of Croatian Metallurgical Society "Materials and Metallurgy", Šibenik, 23-27.06.2002 was provided in the Journal *Metalurgija* 41 (2002) 4, 279-283 [22].

Based on the conclusion of the round table the 6th International symposium of Croatian Metallurgical Society "Materials and Metallurgy" was held 2004 - June 20 - 24.

The 6th Symposium is also in the "Calendar of International Conferences for 2004", (Meeting of World Metallurgical Societys, Düsseldorf, November 2002).

A rapport for the 6th Symposium was provided in the Journal *Metalurgija* 42 (2003) 2, 79 - 84. [23].

There were 368 reports from 28 countries, 660 authors and coauthors registered for the sixth International Symposium of the Croatian Metallurgical Society.

250 participants from 23 countries were present at the symposium. Symposium activity took place through plenary lectures and four sections (poster).

Comprehensive outline of plenary reports (the first 8 reports) were published in the journal *Metalurgija* 43 (2004) 3, 143-198 [24] as the article and the summaries of all lectures in the same volume, 201-263 [25].

Review of the lectures of Poster section were also published in the Journal *Metalurgija* 43 (2004) 3:

- Review of the lectures of materials - section "A", *Metalurgija* 43 (2004) 3, 203-205 [26];
- Review of the lectures in process metallurgy - section "B", *Metalurgija* 43 (2004) 3, 223-225 [27];
- Review of the lectures of plastic processing - section "C", *Metalurgija* 43 (2004) 3, 241-243 [28];
- Review of the lectures of metallurgy and related topics - section "D", *Metalurgija* 43 (2004) 3, 255-256 [29].

More than 100 participants were included in a round table session on the achievements, conclusions and closing of the 6th International symposium "Materials and Metallurgy" was held.

Detailed report from 6th Symposium of Croatian Metallurgical Society "Materials and Metallurgy", Šibenik 2004, June 18 - 22, also was provided in the Journal *Metalurgija* 44 (2005) 1, 3 - 8 [30].

Based on the conclusion of the round table the 7th International symposium of Croatian Metallurgical Society "Materials and Metallurgy" was held 2006 - June 18 - 22. Solaris Holiday Resort, Šibenik, Croatia.

The 7th Symposium is also in the "Calendar of International Conferences for 2006" (Meeting of World Metallurgical Societys, Düsseldorf 2004).

A rapport for the 7th Symposium was provided in the Journal *Metalurgija* 45 (2006) 4, 271 - 276 [31].

At the 7th International Symposium of Croatian Metallurgical Society "Materials and Metallurgy" the following countries had participated:

- | | |
|---------------------------|---------------------------|
| 1. Austria | 18. Japan |
| 2. Belgium | 19. Korea |
| 3. Beloruss | 20. Lithuania |
| 4. Bosnia and Herzegovina | 21. Netherlands |
| 5. Brasil | 22. Poland |
| 6. Bulgaria | 23. Portugal |
| 7. China | 24. Romania |
| 8. Croatia | 25. Russia |
| 9. Czech Republic | 26. Serbia and Montenegro |
| 10. England | 27. Slovakia |
| 11. Egypt | 28. Slovenia |
| 12. France | 29. South Africa |
| 13. Germany | 30. Spain |
| 14. Hungary | 31. Sweden |
| 15. India | 32. Turkey |
| 16. Iran | 33. Ukraine |
| 17. Italy | 34. USA |

There were 475 reports, 799 authors and coauthors registered for the seventh International Symposium of the Croatian Metallurgical Society.

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

Plenary lectures.....	12
Materials - Section "A".....	188
Process Metallurgy - Section "B".....	113
Plastic Processing - Section "C".....	69
Metallurgy and Related Topics - Section "D".....	93

For the plenary lectures research topics were selected relating partly to the new materials and partly to the increase of efficiency of metallurgical procedures, decrease of required energy as well as improving of products quality (Aluminium and High Strength Steels).

Comprehensive outline of plenary reports (the 5 reports) were published in the journal *Metalurgija* 45 (2006) 3, 147-184 [32] as the article, other 3 plenary report were published in *Metalurgija* 45 (2006) 4, 313-340 [33]. The summaries of all lectures of 7th Symposium were published also in *Metalurgija* 45 (2006) 3, 185-268 [34].

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 three Croatian universities (Zagreb, Rijeka, Osijek) participated in the symposium.

More than 150 participants were included in a round table session on the achievements, conclusions and closing of the 7th International symposium "Materials and Metallurgy".

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.

With a demonstration of their best achievements they all assist the metallurgy in Croatia to call the same attention as it does otherwise in the world.

Based on the agreement of Meeting of World Metallurgical Societys, Düsseldorf, November 2005 y. and the November 2006 y., the next 8th International Symposium of Croatian Metallurgical Society "Materials and Metallurgy" will be held 2008 - June 22 - 26, Solaris Holiday Resort, Šibenik, Croatia.

THE AIM OF SYMPOSIUM '2008

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

TOPICS OF THE SYMPOSIUM ARE:

Materials

- *New Materials*
- *Refractories 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*

Here are the most important details on the 8th Symposium of Croatian Metallurgical Society:

ORGANIZER

CROATIAN METALLURGICAL SOCIETY (CMS)

PATRONS

- European Steel Institute Confederation (ESIC)
- European Steel Federation (ESF)
- International Iron and Steel Institute (IISI)
- Ministry of Science, Education and Sport Republic of Croatia,
- Croatian Chamber of Economy

CO-ORGANIZERS

- Academy of Engineering Science of Ukraine
- University of Mining and Metallurgy, Faculty of Foundry Engineering, Krakow
- University of Ljubljana, Faculty of Natural Science and Engineering
- Baikov Institute of Metallurgy and Materials Science, Russian Academy of Sciences, Moscow, Russia
- University of Sarajevo, Faculty for Metallurgy and Materials Science, Zenica
- National Metallurgical Academy of Ukraine
- Technical University of Košice, Faculty of Metallurgy
- Technical University of Košice, Faculty of Mechanical Engineering
- Technical University of Košice, Berg Faculty
- University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture
- University of Osijek, Faculty of Mechanical Engineering, Slavonski Brod
- University of Rijeka, Technical Faculty
- VŠB Technical University of Ostrava
- University of Split, Faculty of Eleectrical Engineering, Mechanical Engineering and Naval Architecture
- Institute of Metals and Technology, Ljubljana

- Institute of Materials Research of the Slovak Academy of Sciences in Košice
- Steel Works Split
- Moscow State Steel and Alloys Institute
- Physico-Technical Institute National Academie of Science Minsk
- Politehnica University of Bucharest
- Institute of Metallurgy "Kemal Kapetanović", Zenica
- Pisarenko Institute of Problems of Strength NASU, Kiev
- Dnepropetrovsk National University
- Hutnictvi zeleza, a.s., Prague
- Slovak University of Technology in Bratislava, Faculty of Materials Science and Technology
- Vatrostalna Sisak d.d.
- Tvornica lakih metala "Šibenik"

CO-OPERATION WITH ORGANIZATIONS

- Stahlinstitut VDEh, Germany
- ATS - Association Technique de la Siderurgie Francaise
- 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
- Instituto Argentino de Siderurgia
- Associacao Brasileira de Metalurgia e Materiais
- ILAFA - Instituto Latinoamericano del fierroy el Acero, Chile
- Société Francaise de Métallurgie et de Materiaux
- The Institut of Materials, Minerals and Mining, England
- P. T. Krakatau Steel, Indonesia
- ISIJ - The Iron and Steel Institute of Japan
- KOSA - Korea Iron and Steel Association
- Amsteel Mills Sdn Bhd, Malaysia
- Philippine Iron & Steel Institute
- NatSteel Asia (S) Pte Ltd, Singapur

- The South African Institute of Mining and Metallurgy
- Iron and Steel Institute of Thailand
- Vietnam Steel Corporation

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GENERAL INFORMATION

LANGUAGES

Croatian, English (no simultaneous translation)

All participants who intend to present a paper are required about a summary of paper (max. 120 words).

The workshop of symposium will be held in plenary session (invited lectures, presentation of firms) and posters sections.

Summaries of all accepted papers will be published in Summaries of Lectures in the Journal Metalurgija 47 (2008), 3. Invited (plenary) papers will be also published in the Journal Metalurgija 47 (2008) 3, in order of acception after regular procedure. The selected papers will be also published in the Journal Metallurgy after Symposium with paid the Participation Fee, and accepted from the Reviewers.

All correspondance and sent Papers/Articles to:

Croatian Metallurgical Society
Berislavićeva 6, 10 000 Zagreb, Croatia
Phone / Fax: + 385 1 619 86 89 (service)
Mob: + 385 98 317 173

Sent Summaries to: denona@denona.hr

DEADLINES (see WEB site for all information)

Registration and Summary: 31th December 2007.
Second Circular: 15th March 2008.
Programme: 15th May 2008.
Papers: at latest 31th December 2008.
Please see: <http://public.carnet.hr/metalurg>

The accompanying Exhibition will present instruments and equipments used in metallurgy and materials.

PARTICIPATION FEE (for each the paper)

- a) Participation, publication of Summarie in Metallurgy issue 47 (2008) 3, presentation in the poster section, Summaries of Lectures ... **150 €**
- b) a) and publication of a whole paper in Journal Metallurgy (**The papers not consistently prepared according to the "Instructions to Authors", for Journal of Metalurgija will not be considered - see WEB site): 450 € (150 € + 300 €)**
- c) Other participants and co-authors, including the Summaries of Lectures: **100 €**

All this prices generally included symposium attendance, welcome cocktail and symposium materials.

Please pay participation fee by May 15th, 2008. to: Croatian Metallurgical Society, Zagreb, Berislavićeva 6, Croatia, the bank account No:

Privredna Banka Zagreb, Croatia
703000-304713-7
(SWIFT PBZG HR 2 X)
(IBAN –)

For the participants from Croatia (in Croatian Kuna):
2340009-1110048043

(Privredna Banka Zagreb)

The fee can also be paid at the symposium: price +10%.

PAPER PRESENTATION

- Plenary lectures of invited scientists will be held.
- All other papers will be grouped by topics and will be given on posters.
- Review of each group of papers will be orally presented by invited scientists.
- **Authors are required to prepare posters (title, abstract, results, conclusion) on a 100×100 cm paper, to be paste on a board.**

Eventually let us point out:

The reception of the 8th Symposium of Croatian Metallurgists by international assotions has shown that the Symposium has become a traitional place for the gathering of the world's experts and scientists of varius protiles: metallurgists, physicits, chemists, mechanical engineers, and technicians who can and want to contribute so that metallurgy in Croatia receives the same attention as it does in the world.

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- [1] Metalurgija 32 (1993) 4, 122-124.
- [2] Metalurgija 32 (1993) 4, 185-194.
- [3] Stahl und Eisen 114 (1994) 6, 80.
- [4] Metalurgija 34 (1995) 3, 57-59.
- [5] Stahl und Eisen 116 (1996) 9, 41-42.
- [6] Metalurgija 35 (1996) 2, 105-126.
- [7] Metalurgija 36 (1997) 3, 135-140.
- [8] Metalurgija 37 (1998) 2, 57-59.
- [9] Metalurgija 37 (1998) 2, 103-132.
- [10] Metalurgija 37 (1998) 4, 195-198.
- [11] Stahl und Eisen 118 (1998) 11, 45-96.
- [12] Metalurgija 38 (1999) 4, 199-204.
- [13] Metalurgija 39 (2000) 3, 131-189.
- [14] Metalurgija 39 (2000) 3, 191-224.
- [15] Metalurgija 40 (2001) 1, 61-63.
- [16] Metalurgija 40 (2001) 3, 127-133.
- [17] Metalurgija 41 (2002) 3, 131-268.
- [18] Metalurgija 41 (2002) 3, 219.
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- [32] Metalurgija 45 (2006) 3, 147-184.
- [33] Metalurgija 45 (2006) 4, 313-340.
- [34] Metalurgija 45 (2006) 3, 185-268.

REGISTRATION FORM SHMD 2008

June 22 - 26, 2008

Registration Form (see web site) should be sent not later than 31th January 2008 to:

Croatian Metallurgical Society,
Berislavićeva 6, 10000 Zagreb, Croatia,
or fax: + 385 1 619 86 89

Name:
Title and Profession:
University or Company:
Mailing Address:
Zip Code:
City:
Country:
Phone:
Fax:
E-mail:
Attendance: - with a paper [] - without a paper [],
Title of the paper:
.....
.....
.....
Author(s):
.....
Date:
Signature:

ACCOMODATION

Solaris Holiday Resort, Šibenik, Croatia

**HOTEL ACCOMODATION FORM SHMD 2008
(see web site)**

Deadline of reservation: 20th May 2008 to:

Phone: + 385 22 361 707, fax: + 385 22 361 800
Solaris Holiday Resort, 22 000 Šibenik, Croatia

Name:
Phone:
Address:
Arrival Date: 06. 2008; Time:
Departure date: 06. 2008; Time:
Please indicate type of room required:
(price are per person/day)

	double 1/2	single 1/1
room + breakfast	36.90 € []	52.90 € []
half board	39.90 € []	55.90 € []
full board	48.90 € []	64.90 € []

visitor's tax - person/day 0.7 €
The prices validly: June 19 - 28, 2008.
Date:
Signature:

Information: Solaris Holiday Resort

Phone + 385 22 361 011
361 007
361 707
Fax: + 385 22 361 800
361 801

The more details about the town Šibenik and Solaris Holiday Resort, please see: www.solaris.hr