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METALURŠKI FAKULTET  
UNIVERSITY OF ZAGREB  
FACULTY OF METALLURGY



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# ABSTRACTS BOOK

## 14<sup>th</sup> INTERNATIONAL FOUNDRYMEN CONFERENCE

Development and Optimization of the Castings Production Processes



with PROCEEDINGS BOOK included on CD-ROM

**Opatija, May 15<sup>th</sup>-16<sup>th</sup>, 2014**

**PROCEEDINGS BOOK,  
14<sup>th</sup> INTERNATIONAL FOUNDRYMEN CONFERENCE  
Development and Optimization of the Castings Production Processes**

**EDITOR**

Faruk Unkić  
University of Zagreb Faculty of Metallurgy

**TECHNICAL EDITOR**

Emina Veljačić, Renata Crnogorac  
University of Zagreb Faculty of Metallurgy

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1.University of Zagreb Faculty of Metallurgy, 2. University of Ljubljana Faculty of Natural  
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AS, 6. Petrokemija d.d.

## PREFACE

Faced to the global crisis, foundries in Europe have to increase their technical competence and economical competitiveness by costs rationalization and optimization of casting production. Each foundry should create its own technical solutions and use latest technological innovations in more efficient way. The increase of product quality and performance require implementation of modern technology and new production concepts in technical and managing respects. Prerequisite to overcome the global crisis is more efficient use of human resource, knowledge and actual scientific and expert attainments. According to this,

University of Zagreb Faculty of Metallurgy, Sisak, Croatia  
in collaboration with  
University of Ljubljana Faculty of Natural Sciences and Engineering, Slovenia,  
Rio Tinto Iron & Titanium GmbH, Eschborn, Germany,  
Pro Ferrum d.o.o., Rijeka, Croatia,  
ELKEM AS, Oslo, Norway and  
Petrokemija d.d., Kutina, Croatia  
has organized

### **14<sup>th</sup> International Foundrymen Conference**

entitled

#### **Development and Optimization of the Castings Production Processes**

The objective of the Conference is to present the recent achievements in the production of ferrous and nonferrous castings and provide an international forum to exchange knowledge and experience related to foundry technology.

The scope of the Conference covers scientific, technological and practical aspects concerning research, development and realization of casting technology. Special attention will be focused towards the competition ability of foundries, environmental protection as well as subjects connected to properties and application of castings.

During the Conference 44 papers will be presented. Participants from 14 countries will participate in scientific, expert and commercial presentations. Proceedings book of the 14<sup>th</sup> International Foundrymen Conference includes summaries of the papers and papers *in extenso* in electronic format (CD). Sequence of papers in Proceedings book has been done alphabetically by the first author's surname.

The organizers of the Conference would like to thank all participants, reviewers, sponsors and all those who have contributed to this Conference in any way.

President of the Organizing Committee



Prof. Faruk Unkić, PhD



THE HEAD OF ORIENTAL GOD (ATIS?)  
bronza  
2<sup>nd</sup> century AD  
SISCIA (modern Sisak, Croatia)



ILLYRIAN HELMET  
iron  
6<sup>th</sup> century BC

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