



**UNIVERSITY OF LIEGE - BELGIUM**  
Aerospace & Mechanics Department  
Metallic Materials Science Unit (MMS)

**Proceedings of the International Conference**

# **ABRASION 2011**

**ABRASION WEAR RESISTANT ALLOYED WHITE CAST IRONS FOR ROLLING AND PULVERIZING MILLS**

Editors

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Editors: Professor Dr. Ir. Jacqueline LECOMTE-BECKERS and Ir. Jérôme Tchoufang TCHUINDJANG

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## FOREWARD

The « Abrasion » Conferences offer an almost unique opportunity to gather every three years people working in the field of abrasion resistant high chromium irons to be used in rolling and pulverizing mills. The well addresses topic and the small, but very active research community are the key factors for the success of this event. The University of Liege receives the organization by inheritance from Fukuoka (Japan 2002), São Paulo (Brazil 2005) and Trento (Italy 2008). It represents a very tough challenge for the local organizing committee, but the enthusiasm to host in Liege academic staff and people from the industry coming from all around the world was too big to renounce to this opportunity.

The number of contributions for this fourth edition confirms that the idea of professor Matsubara to promote the meeting between University and Industry was really responding to the expectations of both these subjects. Scientists and technicians of 12 countries will attend the conference: Austria, Belgium, Brazil, France, Germany, Italy, Japan, Spain, Sweden, Taiwan, Thailand and Turkey. Twenty high quality contributions dealing with solidification, heat treatments, microstructural properties, oxidation and wear resistances will be presented.

I believe that the present proceedings will contribute to the extension of knowledge in the area of science, research, development and application in Abrasion Wear Resistant Alloyed Cast Irons for Rolling and Pulverizing Mills. Proceedings are also available in a CD Rom version.

A special thanks to all people contributing to the organization of the ABRASION 2011, to the nearby industries Åkers, Arcelor, ESW, GP, Magotteaux, MK, and to the CRM Group for offering the opportunity of the technical visit to the Research plant in Liege.

The Conference Chairman,

Prof. Dr. Ir. Jacqueline LECOMTE-BECKERS



## Table of Contents

<b>HSS rolls: from research investigations to the mill (K01)</b> -----	01
<i>Massimo PELLIZZARI and Alberto TREMEA</i>	
<b>Transformation characteristics of the hardfacing deposits by hard particles core sheathed electrode (T04)</b> -----	21
<i>Setsuo ASO, Hiroyuki IKE, Nobuo KONISHI, Suken HOU, Ken-ichi OHGUCI and Yoshinari KOMATSU</i>	
<b>Behavior of Hardness and Retained Austenite during Subcritical Heat Treatment of High Chromium Cast Irons with Molybdenum (T07)</b> -----	33
<i>Sudsakorn INTHIDECH, Prasonk SRICHAROENCHAI and Yasuhiro MATSUBARA</i>	
<b>Wear Resistance Characteristics of High-Cr White Cast Irons of Various Alloying Compositions (T02)</b> -----	45
<i>Yung-Ning PAN, Sheng-Hau WANG, Kaoru YAMAOTO, Nobuya SASAGURI and Yasuhiro MATSUBARA</i>	
<b>Influence of High Temperature Heat Treatment on in situ Transformation of Mo-rich Eutectic Carbides in HSS and Semi-HSS Grades (T16)</b> -----	61
<i>Jérôme Tchoufang TCHUINDJANG, Mario SINNAEVE, and Jacqueline LECOMTE-BECKERS</i>	
<b>Influence of Cobalt Content on Heat Treatment Behavior and Abrasive Wear Characteristics of Multi-Component White Cast Iron (T05)</b> -----	77
<i>Nobuya SASAGURI, Yuzo YOKOMIZO, Kaoru YAMAMOTO and Yasuhiro MATSUBARA</i>	
<b>Tribology, a loss leader for the Choice of wear-resistant Roll Materials (K03)</b> -----	89
<i>Adrien MAGNEE and Jean-Claude HERMAN</i>	
<b>Development of New Type Indefinite Chilled Double Poured Cast Iron (ICDP) Work Roll with Higher Wear Resistance (T10)</b> -----	91
<i>Hajime MORIKAWA and Yutaka TSUJIMOTO</i>	
<b>Erosion characteristics of high chromium cast iron at high temperature of 1173K (T12)</b> -----	101
<i>Kazumichi SHIMIZU, Xinba YAER, Hiroya HARA and Masahito TANAKA</i>	
<b>Effects of Ti, V and Nb carbide on the properties of ICDP cast iron finishing rolls (T17)</b> -----	111
<i>Fabienne DELAUNOIS, Mario SINNAEVE and Véronique VITRY</i>	

<b>Overview: High speed steels for hot rolling mill rolls (K02)</b> .....	123
<i>Mario BOCCALINI Jr.</i>	
<b>Abrasive Wear Resistance of Hypoeutectic 16 wt% and 26 wt% Cr Cast Irons with Molybdenum (T06)</b> .....	143
<i>Attasit CHOOPRAJONG, Sudsakorn INTHIDECH, Prasonk SRICHAROENCHAI, Kaoru YAMAMOTO, Nobuya SASAGURI and Yasuhiro MATSUBARA</i>	
<b>Work Roll Surface Degradation in Hot Rolling: on site and laboratory evaluation methods (T18)</b> .....	157
<i>S. FLAMENT, G. WALMAG, J. MALBRANCKE, G. MOREAS and Mario SINNAEVE</i>	
<b>New wear resistant cast alloys for use at elevated temperatures (T01)</b> .....	171
<i>Gerhard GEVELMANN and Werner THEISEN</i>	
<b>Effects of Alloying Element on Compressive and Wear Properties of Multi-component White Cast irons for Steel Rolling Mill Rolls (T11)</b> .....	183
<i>Mitsuo HASHIMOTO</i>	
<b>Damage Mechanisms of HSM Work Roll Grades for Roughing Stands - Tribological Approach (T15)</b> .....	193
<i>Catherine VERGNE, O. JOOS, Claude GASPARD, Jose TINOCO, Mohammed MOUJIB, Christine BOHER, and Farhad REZAI-ARIA</i>	
<b>Influence of Alloying Elements on High Temperature Hardness of <math>M_7C_3</math> Carbide in High Chromium White Iron (T08)</b> .....	201
<i>Kaoru YAMAMOTO, Nobuya SASAGURI and Yasuhiro MATSUBARA</i>	
<b>Indefinite Chill Roll Material – History and Development (T19)</b> .....	211
<i>Tommy NYLEN</i>	
<b>Microstructure Characterization Trial of High Vanadium Castings for Crushing Machine Parts of Rice Husk (T09)</b> .....	223
<i>Takateru UMEDA and Hirunlabh CHATCHAI</i>	
<b>Effect of erodent properties on erosive wear behaviour of high chromium cast irons (T14)</b> ---	229
<i>Kenta KUSUMOTO, Kazumichi SHIMIZU, Xinba YAER, Hiroya HARA and Masahito TANAKA</i>	
<b>Table of Index and Keywords</b> .....	235