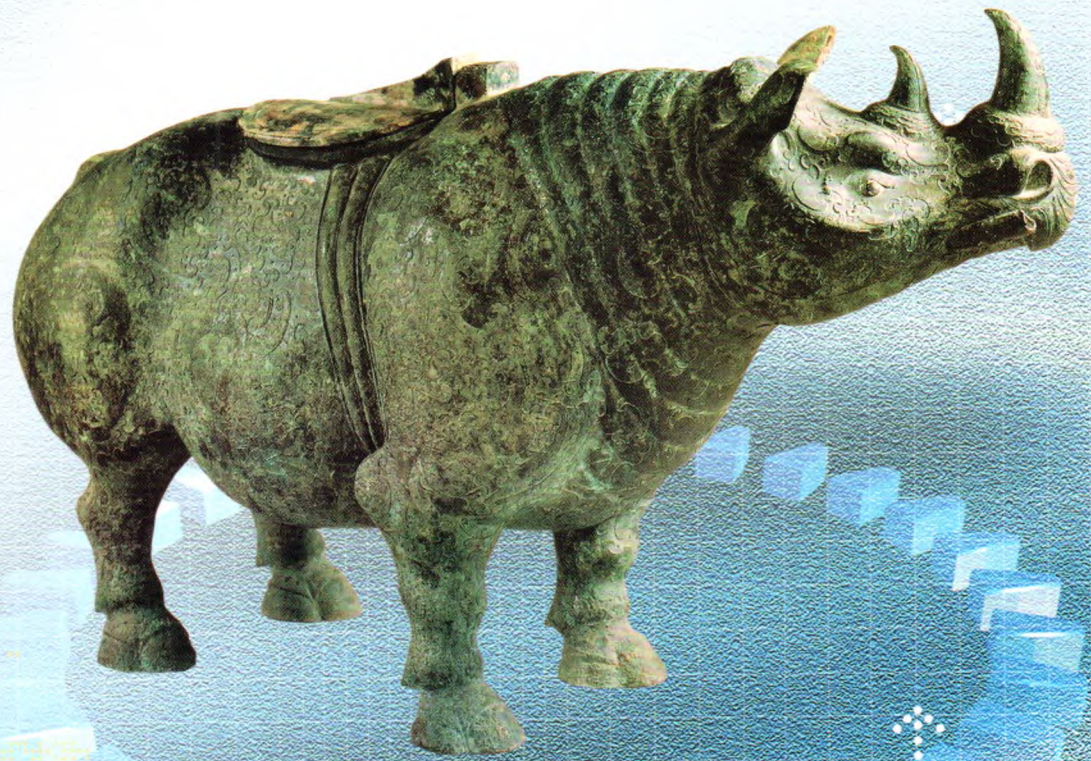




# CHINA FOUNDRY

中国铸造

Vol.14 No. 4 July 2017



FOUNDRY JOURNAL AGENCY  
P. R. China



万方数据

# CONTENTS

Vol.14 No.4 July 2017

## Research & Development

- 233 Mechanism to remove oxide inclusions from molten aluminum by solid fluxes refining method  
*Cong Li, Jian-guo Li, Yi-zhe Mao, et al*
- 244 Effects of returns on composition, microstructure and mechanical properties of GH4169 superalloy  
*Yong-liang Pu, Sheng-zhong Kou, Zhi-dong Zhang, et al*
- 251 Effects of Cu addition on microstructure and mechanical properties of as-cast Mg-6Zn magnesium alloy  
*Yu Zhang, Xiao-feng Huang, Ying Ma, et al*
- 258 Interfacial heat transfer behavior at metal/die in finger-plated casting during high pressure die casting process  
*Wen-bo Yu, Song Liang, Yong-you Cao, et al*
- 265 Creep resistance of as-cast Mg-5Al-5Ca-2Sn alloy  
*Guang Zhang, Ke-qiang Qiu, Qing-chun Xiang, et al*
- 272 Effect of Fe<sub>2</sub>B boride orientation on abrasion wear resistance of Fe-B cast alloy  
*Da-wei Yi, Jian-dong Xing, Han-guang Fu, et al*
- 279 Effect of Nd content on microstructure and mechanical properties of as-cast Mg-12Li-3Al alloy  
*Tian-shun Dong, Xiao-dong Zheng, Tuo Wang, et al*
- 286 Development of a new instrument for measurement of high temperature mechanical properties of resin-bonded sand  
*Peng Wan, Yuan-cai Li, Hong-jiang Ling, et al*

## Overseas/Foundry

- 292 Influence of AlTi3C0.15 modification treatment on damping properties of ZnAl10 alloy  
*Grzegorz Piwowarski, Janusz Buraś and Michał Szucki*
- 297 Microstructure of shear-induced thixoformed Al-4.5Cu-1.5Mg alloy via RAP and SSTT processes  
*Siamak Nikzad, Hossein Ashuri, Mahdi Shafizadeh, et al*
- 304 Solidification microstructure of centrifugally cast Inconel 625  
*Silvia Barella, Andrea Gruttadauria, Carlo Mapelli, et al*

## Information

- 313 Introduction to patents
- 317 Industry News

## Advertisements

### Inside Front Cover, A1

Suzhou Xingye Materials Technology Co., Ltd.

**Back Cover** Foundry Journal Agency

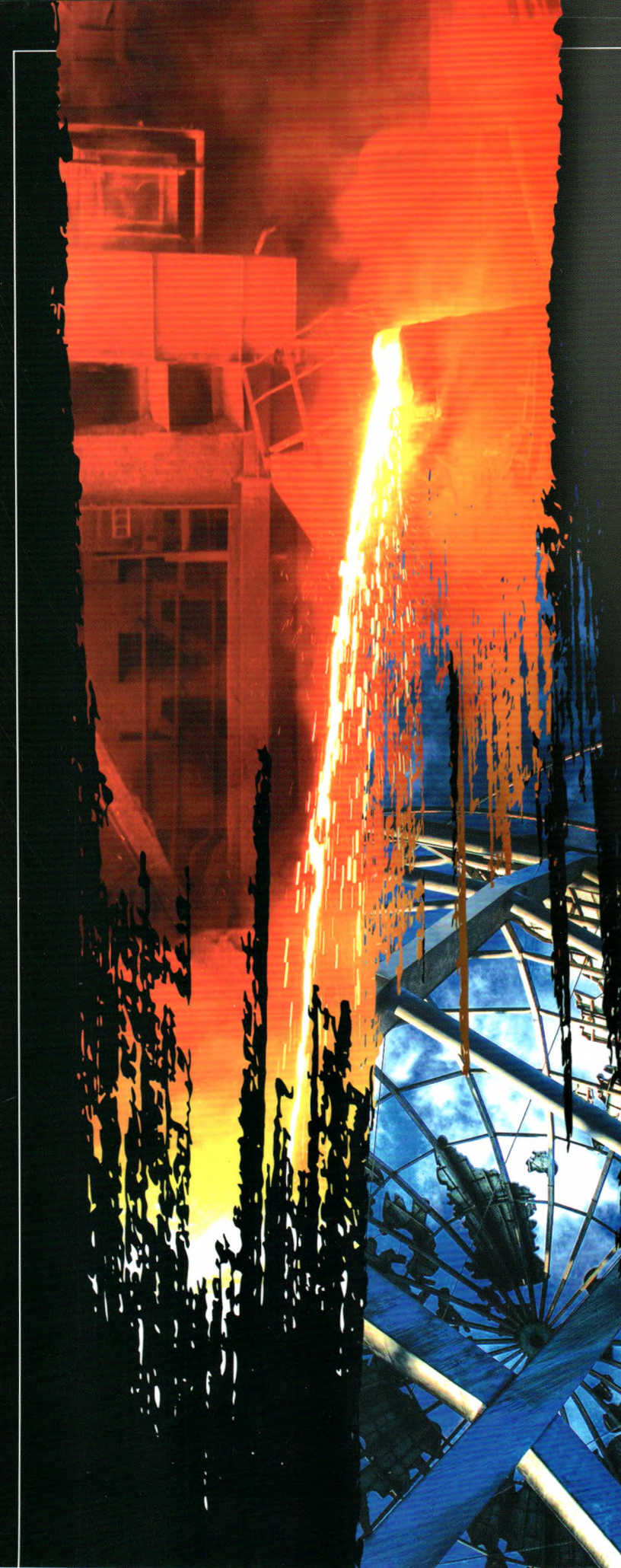
**A2-A3** Illustration for Front Cover

**p319** Castool Tooling Systems

**B1-B2** Call for papers — 2017 International Forum on Moulding Materials and Casting Technologies

**B3-B4** 10th Pacific Rim International Conference on Modeling of Casting and Solidification Processes (MCSP2017)

**B5** Shenyang Research Institute of Foundry



# 铸造®

FOUNDRY



Sponsor:  
Shenyang Research Institute of Foundry  
FICMES  
Publisher:  
Foundry Journal Agency

**A National Periodical Award-winning Journal**

Welcome to advertise in FOUNDRY journal

## 微信零距离

资讯一码牵



扫描“铸造杂志”  
微信二维码，加关注

- 有机会**分享**：最新铸造行业资讯
- 有机会**获得**：《铸造》电子版杂志
- 有机会**阅读**：重要的学术论文
- 有机会**收藏**：独家的铸造行业图片

Scan this 2D code using your mobile device  
Join "Foundry" journal Wechat

Add: No.17 Yunfeng Street South, Tiexi District, Shenyang110022, China  
Tel: +86-24-25611775 25623768  
Fax: +86-24-25611880  
Website: <http://www.foundryworld.com>  
E-mail: [ad@foundryworld.com](mailto:ad@foundryworld.com)