Editor-in-Chief of AGH University of Science and Technology Press Jan Sas

Editorial Board of *Journal of Casting & Materials Engineering:*

Editor-in-Chief

Beata Grabowska, AGH University of Science and Technology, Poland

Vice-Editor in Chief

Marcin Górny, AGH University of Science and Technology, Poland

Associate Editor

Franco Bonollo, University of Padova, Italy

Co-editors

Marcin Brzeziński, AGH University of Science and Technology, Poland Jarosław Jakubski, AGH University of Science and Technology, Poland Artur Bobrowski, AGH University of Science and Technology, Poland Karolina Kaczmarska, AGH University of Science and Technology, Poland

Language Editor

Bret Spainhour

Technical Editor

Agnieszka Rusinek

Cover Designer

Małgorzata Biel

The articles published in the Journal of Casting & Materials Engineering have been given a favorable opinion by the rewievers designated by the Editorial Board.

www:

https://journals.agh.edu.pl/jcme/

© Wydawnictwa AGH, Krakow 2017



AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY PRESS KRAKOW 2017

Wydawnictwa AGH (AGH University of Science and Technology Press)

al. A. Mickiewicza 30, 30-059 Kraków tel. 12 617 32 28, tel./fax 12 638 40 38

e-mail: redakcja@wydawnictwoagh.pl http://www.wydawnictwa.agh.edu.pl