

Welcome to the Journal of Casting and Materials Engineering

The idea of a new journal emerged within the Circle of the Polish Foundrymen's Association (*Stowarzyszenie Techniczne Odlewników Polskich – STOP*), a group of scientists operating in the Faculty of Foundry Engineering at the AGH University of Science and Technology. The initiative was developed in close cooperation with the authorities of AGH University of Science and Technology and the Faculty of Foundry Engineering, and at the end of 2016, Rector Tadeusz Słomka agreed to create the *e-Journal of Casting & Materials Engineering (JCME)* and to include it as part of the University of Science and Technology Press. The *JCME* periodical has been formed using the *Open Journal System (OJS)*; this is essential because of the fact that the *OJS* enables editorial process management via their web page, allowing for open access to all of their published papers.

As the *JCME* editorial team, we are aware of the great responsibility lying ahead of us. The new journal should, after all, contribute not only to the development of science and technology related to foundry engineering but also in other sectors. Meeting this difficult task is possible due to support from the authorities and the Editorial Office at AGH as well as the involvement of the Scientific Committee, which includes several high-class experts of foundry and materials engineering in its international team. We are willing to take up this challenge, anticipating cooperation with all who see the sense of promoting knowledge among two thematic fields: casting processes engineering and materials engineering.

The subject matter of the *JCME* revolves around foundry engineering, including problems related to metals and alloy crystallization, heat treatments, and the microstructure characteristics of cast iron, steel, and non-ferrous metal alloys. In addition, there will be space for topics related to the areas of mechanization, process

automation, robotics, theory, and the construction of machines and devices. This journal will also undertake subjects relevant to the mechanical, foundry, and functional properties of castings as well as the modification of their surfaces.

The mission of this journal is to help develop knowledge and create new scientific ideas, not only within the foundry engineering processes but also within materials engineering. On account of this, it is essential for the new journal to concentrate on the newest achievements and indicate appropriate developmental directions. Original research papers, scientific reviews, and theoretical publications concerning the aforementioned thematic fields will be presented in the *JCME*. Of course, there will also be space for discussions regarding polymer, ceramic, and composite materials.

As the editorial team, we are setting a target of quickly popularizing original research works of the highest level while simultaneously maintaining their accurate verification and content assessment. The innovation of the presented research topics constitutes a special value for us; thus, we invite you to submit your research papers. We will also appreciate suggestions related to the development of our new journal.

Editorial Office

Beata Grabowska

Marcin Górny

Marcin Brzeziński

Jarosław Jakubski

Artur Bobrowski

Karolina Kaczmarek