

Invitation to the congress

1. Kechin Vladimir Andreevich (to the 80th anniversary of his birth)



2. D.A. Boldyrev, S.G. Prasolov, L.I. Popova. Investigation of the structure and phase composition of graphitizing and spheroidizing modifiers manufactured using various casting technologies

Electron microscopic analysis with X-ray spectral microanalysis of the structure of graphitizing № 1, fr. 2—6 mm and spheroidizing № 2, fr. 4—20 mm modifiers of cast iron melt made by various casting technologies — ingot in a mold and a fast-cooled plate. The morphological differences in the structure of the compared modifiers are described and analyzed.

Keywords: modifier, cast iron, structure, phase composition.

3. A.V. Kolyaskin, I.V. Bakin, B.A. Kulakov, A.A. Tokarev. Improving the efficiency of processing iron-carbon melts with powder wire

The features of the technology of out-of-furnace processing of cast iron and steel with powder wire are considered. The parameters affecting the absorption of magnesium from the filler of the powder wire are given. Recommendations for increasing the efficiency of modification with a powder wire are given.

Keywords: modifier, magnesium, powder wire filler, high-strength cast iron, spheroidizing treatment, graphitizing treatment, alloy oxidation.

4. V.B. Dudnichenko. On the 30th anniversary of the Limited Liability Company «Monolit»

A. Popov Technological upgrade of GM concern — launch of modern core equipment of the German company Laempe

The article deals with the impact of coronavirus on the global foundry industry. A positive example of an automobile plant in the United States is shown, which, despite the global pandemic crisis, is fulfilling plans to modernize the foundry.

Keywords: foundry modernization, core-making technology, core packages, aluminum castings, cast automotive components.

5. REVITW to the monograph of Chaikin Andrey Vladimirovich «Scientific foundations of innovative technologies of furnace and furnace processing of cast irons and steels for castings of responsible purpose»

Obituary Gamov Evgeny Stepanovich

(09.11.1937—02.03.2022)

