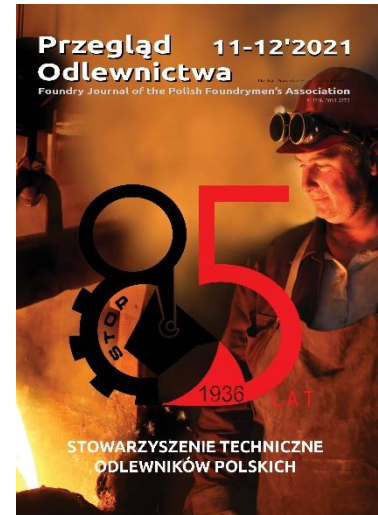


## FOUNDRY REVIEW

11-12'2021

- SUMMARIES -



TADEUSZ FRANASZEK

### **85 YEARS OF OPERATION OF THE POLISH FOUNDRYMEN'S ASSOCIATION**

The jubilee of the 85th anniversary of the Polish Foundrymen's Association will be celebrated by publication of a Monograph on the Associations history.

This article presents a short summary of the most important dates, events and people who built the history of the Association at the turn of 85 years of operation and those who have formed it to this day.

### **THE LATEST NEWS ON IRON PRICES**

The price increase in most segments on the global ferroalloy market continued in October, but the pace of price growth slowed down for the first time in many months.

The post-pandemic recovery in global steel production slowed down in Q4 2021. According to Worldsteel, global steel production increased during the first 9 months of this year. In September, it dropped again, which may be mainly due to Chinese market situation - the main engine of the global steel market. In turn, the generally good results in Germany, the USA and Japan could not improve the global picture.

### **EUROGUSS 2022 ANNOUNCEMENT: RICH OFFER AND ACCOMPANYING PROGRAM IN**

#### **THE FOUR EXHIBITION PAVILIONS**

EUROGUSS, the international trade fair for pressure die casting, processes and products, a unique event and meeting that marks the start of the New Year for the foundry industry. After two turbulent years, the die-casting industry will meet again at the Exhibition Center in Nuremberg on 18-20 January 2022. About 90 percent of the available exhibition space has already been reserved even though there are still around four months before the event. The four halls will present a wide range and diversity of the industry, which will include machinery and equipment, processes, tool and mold production, foundry industry and associated technologies. EUROGUSS is complemented by an extensive accompanying program, which includes competitions, presentations and the German Foundry Congress.

### **AIR FILTRATION IN PRESSURE CASTING**

The article presents the solutions for capturing and filtering sticky aerosols generated in aluminum die-casting processes proposed by Menegon. The original concept of hoods as well as the proposed and promoted filtration technologies were discussed in detail. The article also includes an industry reference list.

MARIOLA SAWCZUK, DAWID LASEK, DAMIAN KUREK

## **"ENERGY-I-SYSTEM" – THE INTELLIGENT TOOL FOR PRODUCTION PLANNING AND ENERGY MANAGEMENT IN FOUNDRY PLANTS**

MODUS Sp. z o.o. as an auditor and an advisor reducing energy costs, will present an analysis of the difficult situation in which Polish energy-intensive plants currently experience. This is due to the soaring prices of electricity, gas and raw materials. Company will present examples of remedial solutions in the form of available support mechanisms and cost-effective technologies that reduce costs. Particular emphasis will be placed on the presentation of the intelligent Energy-I-System tool developed by the company. The purpose of the system is the maximum reduction of costs in energy-intensive plants through better management of energy sources, correlated with the use of load volatility and energy prices over time. Energy-I-System optimizes the production plan by taking into account order priorities, the optimal load on the production resources and corresponding energy costs. The EU plan of 'fit for 55' will also be outlined with conclusions and tips on how to prepare for it.

MAREK SKOWRON

## **OBELISK FOR THE CONSTRUCTION OF THE BRZESKI TRACT (WORK MONUMENT)**

The article presents the history of cast-iron obelisks unveiled in 1825 to commemorate the construction of the Brzeski Tract - the first paved road in the Kingdom of Poland. It connected the Polish Kingdom with the Russian Empire and was of great importance, not only military, but above all for the commercial purposes. The then minister of state, Stanisław Staszic, was the initiator of the of the obelisks creation, they still exist in Warsaw and Terespol. The article presents the technical parameters of the obelisk, its decorative elements, including commemorative items attached to the cornerstone, plates showing the various stages of road construction, and medallions.

JERZY JÓZEF SOB CZAK, PIOTR DUDEK

## **THE CURRENT STATE OF FOUNDRY IN THE CONTEXT OF THE WORLD ECONOMY. POSTCOVID FORECASTS**

2020 has been dominated globally by the COVID-19 infectious disease pandemic caused by the SARS-CoV-2 coronavirus. The post-war world experienced its greatest crisis, which has yet to be overcome in 2021. The pandemic also delayed structural changes, essential for the future challenges for the foundry industry. The article presents changes and trends in the global production of castings (especially from non-ferrous metals) in combination with statistical data on changes in important economic indicators such as GDP, PIM, inflation level and the situation on the labor market, both in Europe and in the USA.

KATARZYNA LISZKA

## **THE POLISH FOUNDRY INDUSTRY SENTIMENT – STATE AFTER THE THIRD QUARTER OF 2021**

The Polish Foundrymen's Association once again conducted a statistical surveys on the functioning of the Polish foundry industry during the pandemic. On their basis, a report on the state of Polish foundries was prepared, showing their current production level, threats and problems, as well as prospects and forecasts for the coming months and years. The presented results may be helpful in creating plans and strategies for the next months and years.

## **REPORT FROM THE 61<sup>ST</sup> INTERNATIONAL SCIENTIFIC CONFERENCE "CRYSTALLIZATION AND SOLIDIFICATION OF METALS 2021"**

**XVII REPORT CONFERENCE OF THE METALLURGY COMMITTEE OF THE POLISH  
ACADEMY OF SCIENCES, METALLURGY 2020**

**X SEMINARY MEETING OF POLISH MAGMASOFT® USERS**

**25 YEARS IN GOOD FORM**