

## FOUNDRY REVIEW

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- SUMMARIES -



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### **PERI-METAL CASTING ASPECTS ON THE BACKGROUND OF THE CURRENT ECONOMIC AND POLITICAL SITUATION ANNO DOMINI 2022**

The global economy has yet to recover from pandemic problems, and the war in Ukraine is already filling them with new threats, fears and uncertainty. The COVID-19 pandemic has caused lockdown threats to companies' operations, resulting in a disruption of supply chains and often in a loss of sales and service opportunities. While the SARS-COV-2 virus continues to constrain a growth of the global economy, with high inflation and rising energy prices reducing profits, Russia's aggression in Ukraine has brought new risks to businesses.

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### **COMPREHENSIVE PROCESS OF PREPARATION OF CASTING PRODUCTION – FROM SIMULATION, THROUGH THERMAL ANALYSIS, UP TO PROTOTYPE CASTING**

The METALPOL Company implements the piece production of the casting presented in figure 1. The casting, on account of its specificity, must be without any defects related to the casting contraction. In addition, in order to obtain the required product, the mechanical working of selected surfaces should be performed. Cast iron GJS-500-7 is the material of the finished product.

### **FAIRS FULL OF INSPIRATION**

The energy of business „face to face” meetings returned to the International Poznań Fairs with a full power. Exhibition halls were full of modern machines and robots, future solutions were also seen. A part of them will be implemented only later by companies of the industrial sector, but it should be remembered that their history started just here in Poznań. The offer of nearly six hundred exhibitors of ITM INDUSTRY EUROPE started working as a magnet.

The article presents a report from the ITM Industry fair and the accompanying Focast Forum.

### **EUROGUSS 2022: GREAT REUNION JOY OF THE DIE CASTING INDUSTRY**

The anticipation of the international trade fair for die casting was great after the enforced break. The mood in the four full halls of the Exhibition Centre Nurnberg was also very good. On the stands of the 641 exhibitors from 36 countries, current topics such as mega-casting, sustainable production methods, the ongoing transformation of the drive towards e-mobility, digitalisation in manufacturing and additive manufacturing processes were discussed. The 21<sup>st</sup> Die Casting Conference, organised by the VDD (Association of German Die Casting Foundries), took place in parallel with the trade fair and offered participants the usual high quality of presentations.

## **MECSPE AND METEF 2022**

Manufacturing and aluminium supply chains get together in Bologna, to the satisfaction of operators: 39 348 visitors and 2000 exhibiting companies.

The 20<sup>th</sup> edition of MECSPE, the exhibition on technologies and innovation for manufacturing, and the 12<sup>th</sup> edition of METEF, the international expo devoted to aluminium, organized by Senaf took place simultaneously for the first time, from June 9<sup>th</sup> to June 11<sup>th</sup>, at BolognaFiere, closing with an actual success. The two events, whose inauguration was also attended by the Deputy Minister of Economy and Finance Laura Castelli, have reflected the vibrancy of the market and also confirmed themselves as important hubs for the whole Italian and international industrial sector in 2022. It is suffice to say, that 39 1348 professionals have visited 13 thematic halls and stands of 2000 exhibiting companies and participated in several special initiatives and conferences organized in the halls, which have covered 92000 square meters of the exhibition space.

## **ECO-FRIENDLY BENTONITE MIXTURES – NEW ADDITIONS TO THE ZĘBIEC MINERALS RANGE**

For many years, ZGM Zębiec SA has been a leading producer of minerals for the industry (bentonites, bentonite mixtures, resin-coated sands and expanded pearlite). For more than 65 years, it has been supplying top-quality products for the foundry, construction and drilling industries in the Polish and foreign markets. The company continuously invests and expands its product range, adapting it to customer requirements.

KATARZYNA LISZKA, WITOLD DOBOSZ

## **THE SITUATION OF THE POLISH FOUNDRY INDUSTRY IN 2021**

In 2022, the Polish Foundrymen's Association (STOP) and the Foundry Chamber of Economy (OIG) conducted the process of collecting basic statistical data from Polish foundries. The tool of obtaining data constitute simple and legible online statistical surveys.

The article presents data on the situation of the Polish foundry industry in 2021 and the current situation in foundries resulting from the armed conflict in Ukraine.

## **TECHNICAL CONFERENCE FOSECO**

The first, after the COVID-19 pandemic period, Technical Conference FOSECO took place 23–25 May 2022 in the ARLAMÓW hotel. The proposition of meeting was positively accepted by the majority of invited representatives of cast iron and steel foundries in Poland. 65 persons representing 30 organizations including representatives of 27 casting houses, attended the Conference.

Several topics concerning improvements of casting production efficiency, effective methods of enterprise management or problems of ecology and work safety, were included in the Conference program. Ideas of new materials, innovative technological solutions and new kinds of castings were also discussed.

WITOLD DOBOSZ

## **XVIII POLISH CHAMPIONSHIPS OF FOUNDRYMEN IN LAWN TENNIS**

After two years break caused by the pandemic, Polish foundry-men returned to fight for cups in the 'white sport'. Championships took place in the FAME SPORT Club in Krakow.

The tournament was combined with the Conference „Current state and perspectives of the Polish foundry practice”.

WITOLD DOBOSZ

## **THE 10<sup>TH</sup> FORUM OF PRESIDENTS AND DIRECTORS OF FOUNDRY PLANTS IN POLAND**

Meetings of the Forum of Presidents and Directors of Polish Foundry Plants are held since 90-th. This was the initiative of the Polish Foundrymen Technical Association (STOP). Maciej Aslanowicz was that time the President of the Association..

20–21 June 2022 in Binkowski Hotel in Kielce, after a few years of break, the 10-th Forum of Presidents and Directors of Polish Foundry Plants took place. The Foundry Chamber of Economy and the Polish Foundrymen Technical Association were the organizers of the event.