

FOUNDRY REVIEW
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-SUMMARIES-



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CAPTURE, UTILIZATION AND STORAGE OF CARBON DIOXIDE: REVIEW OF SOLUTIONS AND THE PERSPECTIVE FOR POLAND

Last years an increase in interests of technologies of carbon capture, utilization and storage of carbon dioxide (CCUS) has been noticed in such sectors of industry in which other methods of a significant reduction of carbon dioxide emission are not possible, technologically unavailable or too costly. The CCUS technologies are often mentioned in a context of striving to achieve the zero balance of CO₂ up to the year 2050. Innovatory solutions based on the production of bioenergy combined with a capture of CO₂ or with a direct removal of carbon dioxide from the atmosphere can constitute a valuable contribution in reaching climatic neutrality by generating the so-called „negative” emissions. The necessity of implementing the technology from the CCUS chain is often emphasised by known and recognized international organisations dealing with new technologies, power engineering or climate changes. On account of this, the hereby paper concentrates on solutions within the CCUS technology chain and on analysis of the current state with taking into account the country perspective.

CONSTANTIN STELIAN STAN

INTERNATIONAL SYMPOSIUM “NEW TRENDS IN METALLIC MATERIALS PROCESSING” – 4TH EDITION, BUCHAREST, 16–18 MAY 2023

The Faculty of Materials Science and Engineering of the “Politehnica” University of Bucharest, together with the Romanian Foundry Technical Association organised on May 16th to 18th, 2023, the 4th edition of the international symposium “New Trends in Metallic Material Processing”. This edition, was meant to celebrate the 80 years since the first achievement of ductile iron and to honour our esteemed professor and respected friend Iulian Riposan who tide his professional life to all grades of iron, but especially to the once with compacted graphite.

ITM INDUSTRY EUROPE 2023 TRANSFORMATION AS A CHALLENGE FOR INDUSTRY

ITM INDUSTRY EUROPE are leading fairs in this part of Europe, these Fairs are presenting comprehensively international offers being in agreement with the Industry 4.0 idea. This event is – for years – the key meeting place, where leaders of the innovation sector are exchanging technological experiences.

These were four days of meetings, inspiring discussions and expositions. The offer of nearly seven hundred exhibitors of the ITM INDUSTRY EUROPE Fairs was appreciated by 15.156 visiting professionals. Several technological innovations and premiered solutions were seen on exposition stands. However, first of all, the exposition and program of Fairs illustrated how the industry is changing and how should be factories of the future.

KATARZYNA LISZKA

GIFA 2023 TOP RESULTS, TOP-LEVEL TALKS AND TOP ATMOSPHERE AT THE BRIGHT WORLD OF METALS IN DÜSSELDORF

After five eventful trade fair days GIFA, METEC, THERMPROCESS and NEWCAST have clearly exceeded expectations. 63,300 visitors from 114 countries. Approximately 2,200 exhibitors from 56 countries presented the power of the metallurgical industry and set forward-looking impulses with their machines, plants and solutions. Sustainability and Artificial Intelligence were much-discussed topics in the twelve exhibition halls of the four world-leading trade fairs.

CONNECTING YOUNG PROFESSIONALS WITH THE GLOBAL FOUNDRY INDUSTRY AWARDED AT THE 1ST WFO YOUNG RESEARCHERS AND EARLY CAREER PROFESSIONALS CONFERENCE

The World Foundry Organization (WFO) held a Forum at GIFA where the Young Researchers and Early Career Professionals Conference Awards were handed out.

Presenting promising young professionals to the industry Following the opening ceremony, the WFO presented the best technical papers awarded in the recently celebrated first WFO Young Researchers and Early Career Professionals Conference.

WFO JÓZEF SUCHY MEDAL FOR MERITORIOUS SERVICES FOR WFO

The World Foundry Organization (WFO) held a Forum at GIFA the Jozef Suchy Medal were handed out.

The opening ceremony of the WFO Forum celebrated in Düsseldorf as part of the activities of GIFA 2023 offered the attendees the possibility to see the hand-out of the WFO Josef Suchy medal for meritorious services to the WFO.

EUROPEAN FOUNDRY WOMEN`S AWARD 2023 - RECEIVED BY PROFESSOR ANNALISA POLA FROM THE UNIVERSITY OF BRESCIA

The Committee of European Foundry Associations (CAEF) awarded the European Foundry Women`s Award for 2023 to Professor Annalisie Poli from Italy, second place went to Amandine Miot from France and the third was Ghyslaine Delpierre, a ferry captain, also from France. The awards were presented by Assofond President and CAEF member Roberto Ariotti at GIFA and Newcast in Düsseldorf in June, during a special ceremony.

DAWID MYSZKA

MS&IA 2023 MODERN STEELS & IRON ALLOYS INTERNATIONAL CONFERENCE

The conference was held on June 28–30, 2023 at the Warsaw University of Technology. The organizers of the conference were the Warsaw University of Polish Foundrymen's Association.

The Conference aim is the creation of the communication and cooperation platform between scientific teams, engineers, entrepreneurs and investors concerning the industrial application of modern steels and iron alloys as well as the implementation of innovatory technologies of heat treatments.

XXIX INTERNATIONAL SCIENTIFIC CONFERENCE OF POLISH, CZECH AND SLOVAK FOUNDRYMEN "COOPERATION 2023"

On April 26-28, 2023 in the Royal Castle in Niepołomice took place the XXIX International Scientific Conference of Polish, Czech and Slovak Foundrymen: 'COOPERATION 2023". The Conference "Cooperation' is the traditional meeting of foundrymen from three friend countries: Poland, Czech and Slovak. This year, the honour of organizing the Conference had the Polish co-organizer – the Faculty of Foundry Engineering of the University of Science and Technology (previously AGH) named after Stanislaw Staszic, in Krakow. The Conference was under the honorable patronage of professor Marian Górny, the Dean of the Faculty of Foundry Engineering (AGH).