



INVITATION

TO THE

27th HUNGARIAN FOUNDRY DAYS

13 – 15 October 2023

HERCEGHALOM, Hungary

HOTEL ABACUS****

Gesztenyés street 3

www.abacus.hu

2.

The scope of the conference is to present an analysis of the technical and economic status and provide an outlook on the future of the Hungarian foundry industry.

Conference sites

Plenary, technical/scientific, and informational presentations
Milton Keynes Hall I-II-III

Concert and Traditional Foundry Men Evening Party
Milton Keynes Hall I-II

Professional exhibition
The lobby of Hotel ABACUS****

Plant tours (10.30 13 October 2023)

Busch-Hungária Kft., Győr
Weiss Manfréd Vasművek Kft., Budapest

After the plant tours lunch is offered for all conference participants at Hotel ABACUS**** from 12.30 until 15.30

Accommodation and boarding during the conference is at
Hotel ABACUS****

Parking possibilities are at Hotel Abacus and around the hotel at the free outdoor parking places

The official languages of the conference are English and Hungarian
All presentations will be interpreted in Hungarian or English

3.
PROGRAM ON FRIDAY, 13. October 2023

10³⁰- 12³⁰ **Plant tours**

Arriving individually to the pre-selected companies by no later than 10:15 a.m. Parking is available at the site. Please register with the local representative prior to the tour. **The tours start at 10:30 a.m. and are guided in Hungarian.**

1. Busch-Hungária Kft., Győr

9027 Győr, Martin utca 1.

Program Coordinator:

Bajnok Judit

Head of Secretariat

+36 30 357 4282

bajnok.judit@busch-hungaria.hu

2. Weiss Manfréd Vasművek Kft., Budapest

1211 Budapest, Öntöde u. 2-12.

Program Coordinator:

Annamária Székács

Head of Technology Department

+36 70 702 4222

annamaria.szekacs@weissmanfred.hu

After the plant tours lunch is offered for all conference participants at Hotel ABACUS**** starting at 12:30 until 15.30.

Arrival: individually, free parking is available around the Hotel.

4.
PROGRAM ON FRIDAY, 13. October 2023

10⁰⁰-19⁰⁰ **Registration - At the lobby of Hotel Abacus******

15¹⁵ **Opening ceremony of the Exhibition at the Lobby of the Hotel**
Opening speech: **Dr. Anna Szombatfalvy**, Vice-president of the Hungarian Mining and Metallurgical Society

EXHIBITORS

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5.
PROGRAM ON FRIDAY, 13. October 2023

- 10⁰⁰–19⁰⁰ **Registration - At the lobby of Hotel Abacus******
- 12³⁰– 15³⁰ **Lunch at Hotel Abacus**
- 13⁴⁵– 15⁰⁰ **Extraordinary General Assembly of the Association of Hungarian Foundries**
- 15¹⁵ **Opening ceremony of the Exhibition**
- 16⁰⁰– 16⁰⁵ **Opening of the Conference, János Szalai, President,**
Association of Hungarian Foundries
- 16⁰⁵– 16¹⁰ **Dr. Pál Hatala, President,** Hungarian Mining and
Metallurgical Society
- 16¹⁰– 16¹⁵ **Zsuzsanna Csizmadia,** Mayor of Herceghalom
- 16¹⁵– 16⁴⁰ **Vaclav Jacko, Foseco:** Foseco- Your Partner in Sustainable Growth
- 16⁴⁰– 17⁰⁰ **Dr. János Erdélyi, University of Miskolc:** University Education of
Foundry Sciences
- 17⁰⁰– 18³⁰ **Forum, Round-table discussion**
- **Gergely Fábrián,** Secretary, Ministry for Economic Development
 - **Dr. Diána Ürge-Vorsatz,** Physicist, Vice-Chair of IPCC's Working Group III.
 - **Zsolt Szalóczy,** Physicist, Futurologist
 - **Márton Penk,** Metallurgist, Owner of the Martin Metals Kft.
 - **László Livo,** Mining Engineer, Energetic consultant
- Moderator: Gábor Zelei,** Geophysicist, Executive Secretary General of the
Association of Hungarian Foundries
- 18³⁰– 19⁴⁵ **Diner**
- 20⁰⁰– 20³⁰ **Winetasting (Daróczi Wine Shop, www.darvin.hu)**
- 20³⁰– 22⁰⁰ **Cultural program (NADENE Band)**

The official languages of the conference are English and Hungarian
All presentations will be interpreted in Hungarian or English

6.
PROGRAM ON SATURDAY, 14. October 2023

- 09⁰⁰–12³⁵ **Informational and professional presentations**
Chairman: **Dr. Pál Hatala**
Conference Room: Milton Keynes Hall I - II
- 09⁰⁰–09³⁰ **Lai Ally, L.K. Machinery Ltd:** LK Die Casting Machines
- 09³⁰–10⁰⁰ **Sam Wainwright, Inductotherm Europe Ltd:** Induction Melting
Applications for the Aluminum Industry 2023
- 10⁰⁰–10³⁰ **Jerome Honorio, FONDAREX S.A:** Innovation on High Vacuum
Technology for Giga Castings
- 10³⁰–10⁴⁵ **Break**
- Chairman: **Dr. György Fegyverneki**
- 10⁴⁵–11⁰⁵ **József Szabó, Hungarian Standardization Board,** Foundry Standards
News
- 11⁰⁵–11³⁵ **Gábor Kaposi, Voestalpine High Performance Metals Hungary Kft.:**
Uddeholm AM Dievar – Solution to Applications that Require High
Toughness
- 11³⁵–12⁰⁵ **Dr. Sándor Lukács, Wieland Kupral Kft.:** CARO® piston and
lubrication system for high pressure die casting
- 12⁰⁵–12³⁵ **Dr. Dániel Molnár, University of Miskolc:** Technology Development of
Multi-Layered Cast Structures
- 12³⁵ **Lunch**

7.

PROGRAM ON SATURDAY, 14. October, 2023

- 09⁰⁰–12²⁵ **Informational and professional presentations**
Chairman: **Dr. Sándor Lukács**
Conference Room: Milton Keynes Hall III
- 09⁰⁰–09³⁰ **Ferenc Nyirő, Kontron Hungary Kft.:** How Gets the Dragon, the Shark, and the Bear to the Industry?
- 09³⁰–09⁵⁰ **Szalai Attila, Fémvirág Bt.:** Foible, Chance or Need? Sustainable Development Objectives in the Foundry
- 09⁵⁰–10¹⁰ **Dr. János Erdélyi, University of Miskolc:** Mechanical Properties of High-Pressure Die Casting Alloys
- 10¹⁰ - 10³⁵ **Break**

Chairman: **Dr. Richard Pintér**
- 10³⁵–10⁵⁵ **István Babos, Öntőgépszerviz Kft.:** Energy Efficient Solutions of the Foundry Industry
- 10⁵⁵–11¹⁵ **Dr. Tibor Kulcsár, András Török, Metal Shredder Kft.:** Innovative Methods of the Complex Utilization of Electronic Wastes
- 11¹⁵–11⁴⁵ **Majercsák László - Tamás Szabó, Grimás Kft.:** Industrial Materials Testing – More than 30 years of Experience
- 11⁴⁵–12⁰⁵ **Dr. Henrietta Hudák, Dr. László Varga, University of Miskolc:** Investigation of the Permeability and Strength Property of Mold and Core Sand Mixtures Based on a New Type of Qualification Method
- 12⁰⁵–12²⁵ **Kristóf Bodnár, Feintool System Parts Tokod Kft.:** Investigation of Casting Technological Parameters of Rotor Die-Castings
- 12³⁵ **Lunch**

The official languages of the conference are English and Hungarian
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8.

PROGRAM ON SATURDAY, 14. October 2023

- 08³⁰–19⁰⁰ **Registration - At the lobby of Hotel Abacus******
- 14³⁰–17⁴⁵ **Informational and professional presentations**
Chairman: **Dr. János Erdélyi**
Conference Room: Milton Keynes Hall I-II
- 14³⁰–15⁰⁰ **Kovařík Martin, SAND TEAM spol. s.r.o.:** GEOPOL® - inorganic binder system
- 15⁰⁰–15³⁰ **Ondrej Fazekas, Vesuvius:** SMARTT - Innovative process for rotary degassing of Aluminum melts
- 15³⁰–16⁰⁰ **Martin Freyn, Vesuvius Moravia:** Specific metallurgical aspects at the Al casting production
- 16⁰⁰–16¹⁵ **Break**

Chairman: **Zoltán Kéri**
- 16¹⁵–16⁴⁵ **Eliska Adamkova, FOSECO:** Foseco Products Help Reduce Hygiene and Environmental Risks in the Foundry
- 16⁴⁵–17¹⁵ **Jernej Šumečnik, PSR d.o.o.:** Finishing of Castings in Times of Labour Shortage - Automatic Grinding
- 17¹⁵–17⁴⁵ **Tomas Brincil, Vesuvius:** Maximal Application of Kalpur Systems
- 18⁰⁰–19⁴⁵ **Diner**
- 20⁰⁰ **Traditional Foundry Men's Evening Party**
Location: Milton Keynes Hall I – II

The official languages of the conference are English and Hungarian
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9.
PROGRAM ON SATURDAY, 14. October 2023

- 08³⁰–19⁰⁰ **Registration - At the lobby of Hotel Abacus******
- 14³⁰–17³⁵ **Section of the University of Miskolc**
Chairman: **Dr. Anna Szombatfalvy**
Conference Room: Milton Keynes Hall III.
- 14³⁰–14⁵⁰ **Zoltán Kéri:** Melt Treatment of Die Casting Alloys
- 14⁵⁰–15¹⁰ **Nóra Biró, Dr. Dániel Molnár, Dr. György Fegyverneki:** The Fingerprint of Aluminum Melts
- 15¹⁰–15³⁰ **Levente Bogoly, Dr. Tamás Mende, Dr. György Fegyverneki, Gábor Gyarmati:** Investigation of the Effect of Different Grain Refining Fluxes and Master Alloy Addition on the Melt Quality
- 15³⁰–15⁵⁰ **Ákos Szécsényi, Gábor Gyarmati:** Development of a New Method for the Qualification of Aluminum Alloy Ingots
- 15⁵⁰–16¹⁵ **Break**
Chairman: **Dr. Dániel Molnár**
- 16¹⁵–16³⁵ **Kornél Szuromi, Dr. János Erdélyi:** The Influence of the Structure and Technology on the Quality of Pressure-tight Castings
- 16³⁵–16⁵⁵ **Gábor Gyarmati:** Interactions of Ti-containing Compound Particles and Oxide Inclusions of Liquid Aluminum Alloys
- 16⁵⁵–17¹⁵ **János Szalai, Dr. Dániel Molnár:** Technology Examination of Wear-resistant Iron Castings
- 17¹⁵–17³⁵ **Dávid Halápi:** Segregation simulation study of metal powders in additive manufacturing technology
- 17³⁵ **Closing speech**

The official languages of the conference are English and Hungarian
All presentations will be interpreted in Hungarian or English

10.
PROGRAM ON SUNDAY, 15. October 15.

- 09⁰⁰–11⁰⁰ **Registration - At the lobby of Hotel Abacus******
- 10⁰⁰–12⁰⁰ **Section of the University of Miskolc**
Chairman: **Dr. László Vigh**
Conference Room: Milton Keynes Hall III.
- 09⁰⁰–09²⁰ **Péter Szabó, PRACTILUB Professional Zrt.:** Modernization of StrikoWestofen Under the Aegis of Energy Efficiency
- 09²⁰–09⁴⁰ **Árpád Pataki, Szegedi Öntöde Kft.:** The Greatest Innovation of the Szegedi Öntöde Ltd
- 09⁴⁰–10⁰⁰ **Márk Sáfrányos, Fémalk Zrt.:** Increasing the Efficiency of Jet Cooling in High Pressure Dies
- 10⁰⁰–10²⁰ **Break**
Chairman: **Gábor Zelei**
- 10²⁰–10⁴⁰ **Sándor Kovács, University of Miskolc:** Analysis of 3D printed steel products
- 10⁴⁰–11⁰⁰ **Dániel Kiss, MAGYARMET Finomöntöde Kft.:** The Effect of Sintering Temperature and Time on the Properties of Ceramic Shells
- 11⁰⁰–11²⁰ **Viktor Nyeste, Hanon Systems Hungary Kft.:** Physical Metallurgical Aspects of Local Squeezing
- 11²⁰–11⁴⁰ **Csaba Walczér, Péter Szilágyi, Márk Kerékgyártó, Wieland eTraction Systems Kft.:** Production of zero prosity rotor by HPDC
- 11⁴⁰–12⁰⁰ **Balázs Sándor, University of Miskolc:** Production and Processing of Semi-Solid Aluminum Alloy Using High-Pressure Die Casting Technology
- 12⁰⁰ **Closing session, closing speech**
Chairman: **János Szalai, President, Association of Hungarian Foundries**
Conference Room: Milton Keynes Hall I – II
- 12³⁵ **Lunch**

11.

KEY EVENT SPONSORS

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12.

The first **Hungarian Foundry Days** took place in April 1959, and the conference has been held in 12 Hungarian cities, 27 times in total.

Over the past 64 years, we have welcomed around 6400 participants, 315 of whom were foreigners.

The 2023 conference will be the seventh time that a separate student and doctoral student section, which will be held under the name of the „**University of Miskolc Section**”, and more than 400 high school students have participated in the foundry demonstrations so far.

For 64 years, the Hungarian Foundry Days event has been a key meeting place for those involved in the foundry profession!