



INTERNATIONAL STEEL CASTING CONFERENCE 2022

AGENDA

October 18-19, 2022
Munich, Germany



Tuesday, October 18, 2022

08:30 Registration

**09:30 THE STEEL CASTING INDUSTRY –
TODAY AND TOMORROW**

Welcome and Introduction

Dr. Marc C. Schneider, CEO and President, MAGMA, Germany

Steel Casting - Old Economy or Innovation for the Future?

Dr.-Ing. Jean-Frédéric Castagnet, MBA, Director Technology & Innovation, GMH Group Germany

Staying profitable in a competitive Situation

Dipl. Ing. Lars Steinheider, Managing Director, FWH Stahlguss GmbH, and Dr.-Ing. Klaus Schmitz Cohnen, Managing Director, Knight Wendling GmbH, Germany

11:00 Coffee Break

**11:30 THE STEEL CASTING INDUSTRY –
TODAY AND TOMORROW CONT.**

Value Creation instead of Tonnage! The Steel Casting Industry in the Nexus between Supply Chains, Transformation and Climate Protection

Dr. Fynn-Willem Lohe, Secretary General, CAEF – The European Foundry Association, Germany

Opportunities and Challenges for the Steel Casting Industry – Driven by E-mobility and next Generation Combustion Engines

Dipl.-Ing. Ingo Bitzer, Managing Director, Schmidt Automotive GmbH and CEO MAT Europe and Raphael Herzog, Managing Director, HERZOG intertec GmbH, Germany

12:45 Lunch

14:00 PROCESS AND MATERIAL IMPROVEMENTS

Evaluation of the Effects of Niobium Addition on Properties of Casting Alloys applied to Mining Products

M.Sc. Ing. Marcos Paulo Ribeiro – Engineering Manager; M.Sc. Ing. Osvaldo da Silva Neto – Engineering Coordinator; Usipe Casting and Machining, Brazil

Innovative Process and Material Developments for Wear Resistant Steel Castings

Özlem Karataş Ertan, R&D Manager, Pinar Döküm AŞ, Turkey

15:15 Coffee Break

15:45 VIRTUAL STEEL CASTING

Progress in Steel Casting Defect Modeling

Prof. Dr. Christoph Beckermann, Robert Donahue and Dr. Richard Hardin, University of Iowa, USA

Autonomous Engineering of Steel Castings

Dr. Marc C. Schneider, Sebastian Koldorf, M.Sc., MAGMA, Germany

17:00 End of Day One

19:00 ISCC Dinner at Alte Kuferei, Ratskeller

Wednesday, October 19, 2022

08:30 DESIGN AND PERFORMANCE OF STEEL CASTINGS

Mechanical Properties of Commercial Steel Castings Testing Results Compared to Simulations

Dr. Richard Hardin, Research Scientist at the Department of Mechanical Engineering, University of Iowa, USA

The Enhanced Benefit of Topology Optimization of Steel Castings due to 3D Sand Printing

Dipl.-Ing. Mirnes Berbić, Research Scientist, Dipl.-Ing Eduard Koppensteiner, Prof. Dr. Peter Schumacher, ÖGI and Ing. Markus Schmid, Dipl.-Ing. Peter Fuchs, Maschinenfabrik Liezen und Gießerei GmbH, Austria

Defect Analysis and Improvement on Highly Stressed Low Alloyed AOD Steel Casting Component

Serhat Adişen, Sales Manager, Akmetal Metalurji End. A.S, Tukey

10:30 Coffee Break

11:00 ADVANCED APPLICATIONS

Steel Castings for Low Temperature and Hydrogen exposed Applications

Prof. Dr.-Ing. Peter Langenberg, CEO, IWT-Solutions AG, Germany

Steel Castings for the Petrochemical Industry

Dr.-Ing. Phillip Weiss, Head of Tube Production and Maximilian Grün, Head of Fitting Production, Schmidt+Clemens GmbH + Co. KG, Germany

Heavy Steel Castings for Advanced Ultra Super Critical (AUSC) Power Plants

Dipl.-Ing. Reinhold Hanus, Senior Expert Technology and R+D, voestalpine Giesserei Linz GmbH, Austria

Closing Remarks

Dr.-Ing. Dr.-Ing. E. h. Erwin Flender, Chairman, Dr. Flender Holding GmbH, Germany

13:15 Lunch & End of Day Two

16:00 Optional: Munich Sight Seeing Tour

18:30 Optional: MAGMA International User Meeting
Welcome Evening at "Der Pschorr"

