



DIE CASTING
CONGRESS
中国压铸会议

**Let's Put Future
in Die Casting**

The 16th China International Die Casting Congress

March 24-26, 2021

Venus Royal Hotel, Shenzhen, China

www.diecastexpo.cn/en/congress

Sponsors:



Organizers:



Co-Organizers:





The 16th China International Die Casting Congress

DIE CASTING CONGRESS Background

Industry upgrading with innovative technology

With lightweight, new energy, 5G, new infrastructure, high-end consumer market has put forward higher requirements for die-casting products. How to improve the enterprise technical level? How to achieve lean management? How to cooperate with end-user market? These will become the key factors for the high-quality development of the industry.

Once again DIE CASTING CONGRESS will be held in 2021, the congress will cover all topics of the die casting industry including product development and integrated computational materials engineering, development and application of alloy material, high-end mold making technology, advanced process and innovative technology, intelligent manufacturing and lean management, die casting equipment and integration technology, to get through the transformation and upgrading period of die casting industry together.

DIE CASTING CONGRESS 2021 will maintain a high level of professionalism and will provide an invaluable opportunity to network and exchange ideas.

Let's Put Future in Die Casting — Post-epidemic Era, Increasing Market Demand of the Industry

DIE CASTING CONGRESS Committee and Industry Support

For a better DIE CASTING CONGRESS, Foundry Institution of Chinese Mechanical Engineering Society (FICMES) established a professional expert committee team. With high sensitivity to the development of the industry and deep research in die casting field, they put forward a lot of professional advices, to make the DIE CASTING CONGRESS have deep technical inside and new vitality at the same time.



Dr. Xiong Shoumei, Professor, Tsinghua University Chairman of DIE CASTING CONGRESS Committee

DIE CASTING CONGRESS was founded in 1997, has always been promoting technical exchanges and progress of the industry, and accompanied and witnessed the rapid development of die casting industry.

Through more than 20 years of development and progress, and the Industry-University-Research cooperation, the quality and design ability of products have made great progress, and moving towards high quality development. However, some crucial technologies compared with some advanced manufacturing technologies, such as high-strength materials, high-end molds, intelligent machining factory, etc., some gaps still exist.

DIE CASTING CONGRESS 2021 will focus on new materials, new technologies, new processes, etc., and share latest research and practice results through keynote speeches, interactive exchanges and other forms. 2021, the DIE CASTING CONGRESS Committee will start from the "heart" to meet the needs of the industry, state the essence of technology, and let's put future in die casting together.



DIE CASTING CONGRESS Committee





Focus on the Die Casting Technology and Application Field Development

Product Development and Integrated Computational Materials Engineering

- Simulation Analysis of Vehicle Parts: Genetic Characteristics and Safety
- Simulation Analysis of Full Life Cycle (Material, Mold, Process)
- CAE Structural Analysis (Strength, Stiffness, Fatigue)
- Original Cost Management Base on Product Life Cycle
- Workshop and Factory Building Design for Super Large Castings
- Simulation Technology and Process Optimization of Casting Process



Development and Application of Alloy Material

- Performance Boost of Traditional Al-Mg Alloy
- Development of New Casting Al-Mg Alloy with High Strength and Toughness
- Development of New Casting Al-Mg Alloy with High Thermal and Electrical Conductivity
- Development of New Casting Al-Mg Alloy with High Heat Resistance
- Development of New Casting Al-Mg Alloy with High Wear Resistance
- Construction of New Alloy Materials Physical Property Processing Database

High-end Mold Making Technology

- Development and Application of Long Life and Free-cutting Die Materials (Die Steel)
- Design and Development of Large Precision and Complex Die Casting Mold
- Application of Additive Manufacturing in Die Casting Mold
- Intelligent Design of Die Casting Mold
- Lightweight Design and Manufacture of Die Casting Mold

Advanced Process and Innovative Technology

- Vacuum Die Casting
- Pore-free Die Casting
- Semi Solid Die Casting
- Squeeze Casting
- Rapid Prototyping Manufacture
- Low Pressure Casting (Chassis, Wheel Hub, Cylinder Head)
- Gravity Casting
- Soluble Core Die Casting Technology



Intelligent Manufacturing and Lean Management

- Process Simulation
- Expert System
- Intelligent Control System
- Lean Management of Workshop
- Quality Management System
- Casting Process and Data Collection for Optimizing Simulation Precision

Die Casting Equipment and Integration Technology

- Optimization and Upgrade of Die Casting Equipment
- Die Casting Units and Peripheral Equipment Integration
- High-precision Detection Technology
- Post-treatment and Grinding Technology of Large Castings
- Airless Spray (Micro Spray) Technology



We now sincerely invite you, who are devoted to die casting research and application, to actively share and exchange views and achievements in way of papers and presentations on following topics.

| Topics

Six Themes:

- Product Development and Integrated Computational Materials Engineering
- Development and Application of Alloy Material
- High-end Mold Making Technology
- Advanced Process and Innovative Technology
- Intelligent Manufacturing and Lean Management
- Die Casting Equipment and Integration Technology

Other topics on theory, technology, research and development, and market in die casting field.

| Benefits

- Full paper after acceptance will be included in the 16th China International Die Casting Congress Proceedings and "CNKI".
- Authors of excellent papers approved by experts may have opportunity to give speech at the 16th China International Die Casting Congress.
- Excellent papers approved by experts will be recommended to bimonthly magazine CHINA FOUNDRY.
- Full English paper after acceptance will be submitted to the World Foundry Organization (WFO) and exchanged among its members.

| Rules

- Full paper should be written in English no more than 6000 words in Microsoft Word, and has never been publicly published in any journals or proceedings.
- The paper should include title, abstract, keyword, body, conclusion and references.
- Graphics and photos in paper shall be clear in high resolution. Table in paper shall be three-line one.
- Together with the paper, the author shall also send necessary information including first author's profile, title, postal address, telephone and E-mail address to youyi@foundrynations.com.

| Deadlines

Abstract submission: Dec. 18, 2020

Full paper submission: Jan. 31, 2021

Registration

Registration and Payment Time	Delegate	Fee (RMB)
Pre-registration Before March 19, 2021	Regular Delegate	2,000 / person
	Purchasers/Casting Factories	1,700 / person
	Member Units	1,700 / person
On-site Registration After March 19, 2021	所有参会人员	2,500 / person

Benefits for delegates:

- * The cost includes: 2 days technical sessions, 4 tea breaks, 2 lunches, 1 dinner, conference gift and materials
- * Register and pay before March 19, Enjoy buy 5 get 1 free

VIP Package

Offer 2 nights hotel accommodation, free shuttles to airport or train station, front seat during the DIE CASTING CONGRESS, VIP seat for dinner.

4,800 / person
Only accept registration and pay before February 28, not enjoy the benefits of buy 5 get 1

Factory Visit

Deadline: March 19, 2021

100 / person

Support Media



Contact for Registration

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