

**The Bright World of Metals 2019 – Press Release No. 12 /**  
**June 2019**

**GIFA, METEC, THERMPROCESS & NEWCAST 2019**  
**with high-quality special events**

**New additions to the programme:**

- **Special additive manufacturing show & conference**
- **Special digitisation & climate protection show**
- **Thermal energy storage forum**

The “Bright World of Metals” from 25. to 29. June 2019 will be featuring a unique range of international congresses, symposiums, forums and special shows. The four trade fairs GIFA, NEWCAST, METEC and THERMPROCESS will be providing a high-quality programme focussing on the entire spectrum of foundry technology, castings, metallurgy and thermo process technology – including additive manufacturing, metallurgical issues, trends in the steel industry, current aspects of thermo process technology or innovations in the energy and resource efficiency fields. Some of the events will be taking place for the first time too, such as the two-day thermal energy storage forum, the one-day congress about metal 3D printing or the special “additive manufacturing” and “digitisation & climate protection” shows.

**Thermal energy storage forum**

For the first time, experts from the research, development and industrial communities will be meeting at the Rheinhofel “Vier Jahreszeiten” in Meerbusch (Düsseldorf) for the thermal energy



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**Düsseldorf, Germany**

**14<sup>th</sup> International Foundry Trade Fair with Technical Forum**

**10<sup>th</sup> International Metallurgical Trade Fair with Congresses**

**12<sup>th</sup> International Trade Fair and Symposium for Thermo Process Technology**

**5<sup>th</sup> International Trade Fair for Castings with Newcast Forum**

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Messe Düsseldorf GmbH  
Postfach 10 10 06  
40001 Düsseldorf  
Messeplatz  
40474 Düsseldorf  
Germany

Telefon +49 211 4560-01  
Telefax +49 211 4560-668  
Internet [www.messe-duesseldorf.de](http://www.messe-duesseldorf.de)  
E-Mail [info@messe-duesseldorf.de](mailto:info@messe-duesseldorf.de)

Geschäftsführung:  
Werner M. Dornscheidt (Vorsitzender)  
Hans Werner Reinhard  
Wolfram N. Diener  
Bernhard Stempfle  
Vorsitzender des Aufsichtsrates:  
Thomas Geisel

Amtsgericht Düsseldorf HRB 63  
USt-IdNr. DE 119 360 948  
St.Nr. 105/5830/0663

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storage forum on the occasion of the “Bright World of Metals”. The two-day programme (24. and 25. June) revolves around such relevant topics as material development and the role thermal storage equipment will be playing in future energy systems in relation to metal manufacturing and processing. Major emphases of the programme are:

- “Use of waste heat by thermal energy storage units”. The speakers about this include Andreas Maußner from ZAE Bayern and Reza Tochmafschan from Fechtelkord & Eggersmann.
- Panel discussion: “Thermal storage in industrial processes”. Joachim Karthhäuser, founder and CTO of Climeon, Dr Marc Linder from the German Aerospace Centre and Andreas Krönauer from ZAE Bayern will be discussing obstacles and potential here.
- “Power-to-heat-to-power, Carnot batteries, high-temperature storage”. The speakers include Jennifer Wagner and Hasan Özdem from Siemens Gamesa and Thomas Bauer from the German Aerospace Centre.
- “Chemical reactions for the storage of thermal energy” Danny Müller from Vienna Technical University, Manuel Würth from Munich Technical University and Benjamin Fumey from EMPA will be talking about this subject.

ZAE Bayern (Bavarian Centre of Applied Energy Research) and the German Energy Storage Association are behind the event, which is being organised by Messe Düsseldorf together with the ENERGY STORAGE EUROPE team and the GIFA, METEC, THERMPROCESS and GIFA teams. Tickets for the thermal energy storage forum are available via this link: [www.esexpo.de/fte2019](http://www.esexpo.de/fte2019).



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## Additive manufacturing: congress & special show

Two events about additive manufacturing will be experiencing their premiere: the special show in Hall 13 and the “Metal 3D Printing” conference. Additive manufacturing is creating new potential for foundries and their suppliers in model and mould production, in core manufacturing or in direct metal printing. The presentations at the conference on 26. June will be covering the following central topics:

- How foundries benefit from 3D printing
- 3D printing in tool and mould production
- Processing of zinc die-casting materials in 3D printing
- New hybrid manufacturing chains – casting/generation

The congress speakers include such 3D specialists as Christoph Dörr/Trumpf, Matthias Steinbusch/Voxeljet or Ralf Frohwerk/SLM Solutions Group. The conference manager and host is Sebastian Bremen, head of the 3D Printing Centre in Aachen and Group Manager Laser Powder Bed Fusion, Fraunhofer ILT. The conference will be rounded off by a guided tour of GIFA Hall 13, including the special AM show. The latest information is available at: [www.sv-veranstaltungen.de/de/event/3d-druck-metall](http://www.sv-veranstaltungen.de/de/event/3d-druck-metall); tickets can be obtained there too. Tickets can be bought with a 20 per cent discount by entering the code “REF20-81910425“ in the following link: <https://www.sv-veranstaltungen.de/gifa>.



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## **GIFA & NEWCAST: the heart of the international foundry industry**

The international foundry industry is concentrated in the GIFA and NEWCAST Halls 10 to 17 – not least of all because of the wide-ranging activities of the Association of German Foundry Experts and the Federal Association of the German Foundry Industry. The special “digitisation & climate protection” show will be holding its premiere, for example. The potential for using waste heat, most of which is still not utilised, provides foundries with particularly large opportunities to reduce energy costs and CO2 emissions – another reason to tackle this issue. The meeting point for foundries in Hall 13 (Stand D 04) has also been redesigned, with its sections devoted to different subjects being the main attractions (e.g. “Technology in casting”, “World of castings”). The **NEWCAST Award** on 26. June is not a premiere, but it is a genuine highlight. This is where tribute is paid to innovative castings from NEWCAST exhibitors.

### **The successful trio: METEC & EMC & ESTAD**

METEC with the associated congresses EMC – European Metallurgical Conference and ESTAD – European Steel Technology and Application Days is an unbeatable three-part success story. From 24. to 28. June, everything at ESTAD will focus on steel as a material, its production and applications as well as environmental engineering and energy aspects. The five-day congress is an absolute must for steel manufacturers, suppliers and users. The 4<sup>th</sup> ESTAD is being organised by the steel institute VDEh in co-operation with its partners “Austrian Society for Metallurgy and Materials” and “Associazione Italiana di Metallurgia“. Detailed information and tickets can be obtained online at: [www.metec-estad2019.com](http://www.metec-estad2019.com).



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Not only METEC is taking place for the tenth time – EMC is celebrating its tenth anniversary next year too. The European Metallurgical Conference is the most important conference for non-ferrous metallurgy in Europe and starts two days before METEC. The main issue on which it focusses is optimum utilisation of resources and recycling for a sustainable solution. The conference is being held exclusively in English, is organised by GDMB – Society of Metallurgists and Miners and is aimed at metal producers, plant manufacturers, service providers, universities and engineering firms. Tickets can be obtained via the following link: <https://emc.gdmb.de/registration/registration-fees/>, where registration is also carried out.

### **THERMPROCESS with a symposium and special show**

Theory and practice also go hand in hand at the two THERMPROCESS events, the special FOGI show organised by the VDMA Industrial Furnace Manufacturing Research Association and the THERMPROCESS Symposium, for which VDMA Metallurgy is responsible. The Symposium deals with current aspects of thermo process technology in numerous lectures. In addition to the lectures, prominent research institutes from the thermo process technology field are presenting their areas of operation and latest research projects in the special FOGI show in Hall 10.

**Your contact:**

**Press department**

**GIFA, METEC, THERMPROCESS, NEWCAST 2019**

Monika Kissing (Senior Manager Press & PR) /

Michelle Pietsch (Junior Manager Press & PR)

Tel.: +49 211-4560 543/465

Fax: +49 211-4560 87465

E-mail: [KissingM@messe-duesseldorf.de](mailto:KissingM@messe-duesseldorf.de) / [PietschM@messe-duesseldorf.de](mailto:PietschM@messe-duesseldorf.de)



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