

# getting in touch with the future of lost foam casting what's up?

international symposium

shaping opportunities

international lost foam symposium

lost foam council award 2018

your platform for innovations



Lost Foam is the **innovative way** to produce the most complex components more **easily, cost-effectively** and **efficiently**. The International Lost Foam Symposium offers you the unique opportunity to get to know all areas of this fascinating technology through practical insights and presents current developments.

**Lectures** will cover applications, examples of components, materials, requirements and general conditions in various sales markets.

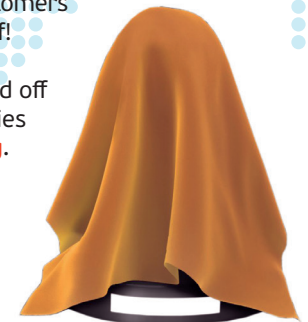
All technical aspects of the process chain are presented in the facilities of the Fraunhofer Institute for Manufacturing Technology and Applied Materials Research with **real plant technology**.

Top-class **international speakers** from America, Asia and Europe will give insights into their work and present current trends.



Take part in the **Lost Foam Council Award 2018**. The award goes to the best realization of a cast part which takes advantage of the **specific benefits** of the lost foam process. All submissions will be presented in an exhibition during the symposium. Show colleagues and future customers what you are capable of!

The program is rounded off by numerous possibilities for **global networking**.



**Chairman  
F.-J. Woestmann,**

HEAD OF THE DEPARTMENT FOUNDRY TECHNOLOGY AND LIGHTWEIGHT CONSTRUCTION AT THE FRAUNHOFER INSTITUTE FOR MANUFACTURING TECHNOLOGY AND APPLIED MATERIALS RESEARCH - IFAM AND MANAGING DIRECTOR OF THE LOST FOAM COUNCIL e.V. - GERMANY

BREMEN . GERMANY 2018 NOV. 07+08

## selection of speakers

FROM: ASIA - RUSSIA - USA - EUROPE: In addition to contributions from industry and research, you will also hear presentations on the development of the process. The aim of the event is to exchange ideas, expand the network and get an overview of activities in lost foam casting worldwide. You will hear, inter alia, the following speakers and lecture topics:

### Rob Klijnsma

FOUNDRY ENGINEER / LOST FOAM SPECIALIST  
NETHERLANDS

### Jorge Villarreal

FUNDILAG HIERRO S.A. DE C.V.,  
CEO  
MEXICO

### Valerii Anderson

FOUNDRY CHIEF SPECIALIST OF THE RESEARCH  
AND TECHNICAL FACILITY «KVARTZ»  
CANDIDATE OF TECHNICAL SCIENCES,  
MEMBER OF COUNCIL OF UKRAINIAN METAL  
CASTERS' ASSOCIATION, HONORED METAL CASTER  
OF UKRAINE – UKRAINE

### Huib van der Weiden

LOST FOAM SPECIALIST  
GEMCO ENGINEERS B.V.  
NETHERLANDS

### Jens Wiesenmueller

MANAGING DIRECTOR  
GUSSSTAHL LIENEN GMBH & Co. KG  
GERMANY

### Marshall Miller

SUPPLIER DEVELOPMENT MANAGER  
FLOWSERVE COOPERATION  
USA

## program

### selection of lectures

#### Product Design for Lost Foam, what's up?

UNDERSTANDING DESIGN ADVANTAGES AND TURNING THEM  
INTO ECONOMIC ADVANTAGES

#### Lost Foam Process and alternatives to improve design and cost

SUCCESSFUL WITH 100 % IN-HOUSE PRODUCTION FROM SYSTEMS  
TECHNOLOGY TO MACHINED CASTINGS

#### Attractivity of Lost Foam casting for small foundries with a high level of quality

ENTRY INTO THE PROCESS FOR CONTRACT FOUNDRIES

#### Lost Foam in China Past, Present and near future: Who is producing what and why?

DEVELOPMENT OF THE LAST 10 YEARS WITH REGARD TO QUANTITIES,  
PLANT TECHNOLOGY AND QUALITY OF CASTINGS

#### Technical state and market situation of the lost foam steel casting process at GussStahl Lienen

ECONOMICALLY EFFICIENT IN THE NICHE

#### Applications of Additive Manufacturing in the Lost Foam Process

COMBINATION OF ADDITIVE MANUFACTURING AND LOST FOAM CASTING

### background

#### About the Company

Lovink Technocast B.V. – established in 1911.  
Jobbing foundry, based in the Eastern part of the Netherlands, close to the German border. Three mol-  
ding processes: Green sand, No Bake and Lost Foam. Lost Foam has been established in 1988 with  
a pilot line with 2 flasks, expanded to 10 flasks in 1992, replaced by a full scale Vulcan Trufoam in 1997.  
A new pilot line with up to date technology and a small MF induction furnace have been installed in  
2017. Materials in production: Ductile iron and gray iron. Markets served: Automotive, trucks, compres-  
sors, hydraulics, forklifts, heating, domestic applications, pumps, etc. >95% export.

#### About the Company

Fundilag Hierro S. A. de C.V. is a lost foam foundry specializing in the supply of grey and ductile iron for  
various sectors. Our more than 28 years of experience in producing castings using the lost foam process  
has given us the ability to take significant advantage of this unique process. Fundilag Hierro S. A. de  
C.V. has over 300 tons of melting capacity per day and is equipped with the most modern machines to  
control the complete production process.

#### Biographie

During his 50 year career in the field of metal casting, Valerii was head of developing and has introduced  
cutting edge casting technologies in 18 facilities in the Ukraine. He has shared his important experience,  
knowledge and skills with numerous foreign production institutes and organizations. Valerii completed  
postgraduate studies and defended his diploma thesis as a metal casting candidate. He was a member  
of the metal casting science councils of Kyiv Polytechnical Institute and the Institute of Metals and Alloys  
of the National Academy of Sciences, Ukraine. Nowadays, Valerii is a lead specialist of the «Kvartz»  
facility, where he and his colleagues are introducing cutting edge technologies for Ukrainian and foreign  
productions. Valerii holds several patents and authored certificates in metal casting. He has repeatedly  
presented achievements of Ukrainian metal casters on international exhibitions and meetups.

#### About the Company

GEMCO Cast Metal Technology offers a complete range of strategic and operational consulting services  
as well as engineering, project management and turnkey delivery for the foundry industry. Teams of  
foundry experts support the industry through planning, conception and foundry technology from design  
to implementation; this also includes analyses, feasibility studies and design engineering. Gemco offers  
extensive know-how in gray-, steel-, aluminum- and magnesium casting, as well as the green sand  
process, the lost foam process and high-pressure die casting.

#### About the Company

GussStahl Lienen (GSL) is an innovative specialist for the production of sophisticated steel cast parts  
weighing 1 - 800 kg in small and medium-sized series. The cast products for customers in mechanical and  
plant engineering are manufactured in synthetic resin-bonded sand casting and in the lost foam process.  
The range of materials extends from low-alloy quenched and tempered steel castings to high-alloy cast  
materials for applications with the highest temperature, wear or corrosion loads. In addition to casting  
production, the range of services also includes cast part development, pattern and tool making, heat treat-  
ment, mechanical processing, welded constructions, surface treatment and quality testing.  
GSL has been operating a production line for lost foam steel castings since the late 1980s and is regarded  
as one of the pioneers of this efficient manufacturing process worldwide.

#### Biographie

A graduate of Tennessee Technological University 1980 B.S. Industrial Technology and FEF Scholarship  
Recipient, Marshall has served primarily in the Automotive Iron Foundry industry green sand and  
machining operations. Duties ranged, in the beginning, from Estimating, Customer Service, Operations  
Management in Machining to Quality and Technical Management in the foundry continuing on to his cur-  
rent role for 9 years as Supplier Development Manager, Americas, for Flowserve Corporation, a Pump,  
Valve and Seal manufacturer based in Irving, TX, who purchases approximately \$220,000,000 in castings  
per year, globally. In recent years, Marshall has become involved in the AFS Lost Foam Committee as  
Secretary and participates on the AM4CM AFS Committee, Chairing the Printed Tooling Committee as  
well as an Education Chair for the AFS Tennessee Chapter.



**Registrations** must be made in written form. Registration confirmation and invoice will be sent. Please do not transfer any money until after receipt of the invoice and always remember to state the invoice number.

**Registration fee** What's up? 800.00 €

The scope of **services** includes the symposium documentation, beverages during breaks, lunch, evening event and guided tour through the IFAM. The number of participants for the tour is limited and registrations will be considered in the order in which they have been received. The documents will be handed out to the participants at the symposium.

**Conference language** English

#### Event venue

Atlantic Hotel Universum  
Wiener Straße 4  
28359 Bremen  
Tel: +49 (0) 421 2467-0  
universum@atlantic-hotels.de

#### Hotel reservation

A limited number of rooms is available in the event hotel. The keyword for bookings is „Lost Foam“.

#### Conference office

Petra Theile +49 (0) 421 2246-101 or  
petra.theile@ifam.fraunhofer.de

**Terms and conditions** Cancellations must be made in writing. For cancellations up to 14 days before the start of the event we charge a processing fee of € 50.00 plus VAT. After this period, the full participation fee as per invoice must be paid. The date of the incoming mail stamp is decisive. In this case, we will send you the meeting documentation upon request. It is possible to appoint a substitute participant in agreement with the organizers. Individual parts of the event cannot be booked. If an event must be cancelled for unforeseeable reasons, immediate notification will be given. In this case there is only an obligation to reimburse the participation fee already paid. In exceptional cases we reserve the right to change speakers and/or make changes to the program. In any case, the liability of the Lost Foam Council is limited exclusively to the participation fee. Data protection: The Lost Foam Council collects and processes your address data for its own advertising purposes and enables well-known companies and institutions to send you information and offers in the context of advertising. For the technical implementation of data processing, we make use of external service providers in some cases. If you no longer wish to receive information and offers, you can object to the use of your data by us or third parties for advertising purposes at any time. For this purpose please use the e-mail address: info@lostfoamcouncil.de or any of the above contact options.



## registration

### international symposium „what's up?“

☐ I will take part in the international symposium „What's up?“ on November 7 and 8, 2018 in Bremen. This registration is binding.

Last name \_\_\_\_\_

First name \_\_\_\_\_

Company | institution \_\_\_\_\_

Function \_\_\_\_\_

Field of activity | department \_\_\_\_\_

Street | PO box \_\_\_\_\_

Postcode | city | country \_\_\_\_\_

Telephone \_\_\_\_\_

E-mail \_\_\_\_\_

☐ I would like to take part in the guided tour of the Fraunhofer Institute IFAM. I know that the number of participants for the tour is limited and that registrations will be considered in the order in which they have been received.

☐ I would like to participate in the award ceremony. I will receive detailed information and conditions of participation by email.

Date, signature \_\_\_\_\_

Please send you registration to  
E-mail: petra.theile@ifam.fraunhofer.de  
Fax: +49 421 2246 184