

27th - 28th March 2018 - Cranfield University



CASTcon

Future-proofing
the cast metals industry



Learn from the best

*The UK cast metals industry will come together for the re-launch of a regular conference:
CASTcon - totally dedicated to the metal casting sector*

CASTcon offers the opportunity to visit world-class research facilities, listen to presentations from practical foundry personnel, end users, supplier representatives and leading industrialists, and network with potential collaborators and partners.

Representatives from the sand, investment and die casting sectors will be in attendance.

Organised by the Foundry Equipment Supplies Association (FESA), the Cast Metals Federation (CMF) and Cranfield University, and supported by the Diecasting Society, Institute of Cast Metals Engineers (ICME) and the Tor Lodge and Applecross Trust, **CASTcon** will enable the sector to come together to discuss pertinent issues in the only event of its kind in the UK.

CASTcon features:

- Presentations from leading industry suppliers of equipment and services to industry
- Evening reception - with welcome address followed by informal social gathering and buffet supper
- Keynote address
- Table top exhibition
- Free tour of world-class facilities at Cranfield University
- Networking opportunities
- Free places for Apprentices/Students
- On-site hotel accommodation (not included in delegate fee) and free parking



Tor Lodge
and
Applecross
Trust

**DON'T MISS the only dedicated all-encompassing
cast metals event to be held in the UK in 2018**



**Cranfield
University**
Tour of
Facilities

Two one and a half hour tours will be held on **Wednesday 28th March** for **CASTcon** delegates to gain a fascinating insight into Cranfield University's world-class facilities including the Crimson Casting Facility, Surface Engineering and Wire Arc Additive Manufacturing technologies.

Tour 1 will depart at 2.00pm for any delegate who has pre-booked;

Tour 2 will depart at 3.45pm for pre-booked delegates.

Pre-booking essential - contact CMF to book places or to make changes to bookings.

An optional exhibitor tour of the university facilities will depart from the foyer of the Vincent Building at 4.30pm on Tuesday 27th March and will last for one hour.



Tuesday 27th March

EVENING SESSION

- 6.00pm Opening of event
- 6.05pm **'Global industry overview'**
Mark Fenyes, FICME, Omega Foundry Machinery and President of the World Foundry Organisation (WFO)
- 6.25pm **'Prototyping opportunities for investment castings, from 25g to 4,000kg'**
Will Jeffs, Castings Technology International (Cti)
- 6.45pm **'Additive Manufacturing vs Casting - who will win?'**
Presentations and panel discussion with Q&A*
- 7.30pm **Networking and buffet supper with cash bar**
- 9.30pm Close

Wednesday 28th March

MORNING PLENARY SESSION

- 8.30am Exhibition opens
- 9.00am **Welcome and Plenary Address**
Prof Rajkumar Roy, Cranfield University
- 9.30am **Keynote Address**
Iain Wright, Williams Advanced Engineering
- 10.00am **'Home grown talent - a people centred approach to strategic company development'**
Steph Curtis and Vikki Evans, Wall Colmonoy Ltd
- 10.30am **'Latest techniques for high quality castings'**
Prof J Campbell OBE
- 11.00am Coffee/Exhibition

Wednesday 28th March PARALLEL SESSIONS

SESSION A

- 11.30am **'Enhanced utilisation of production data for the foundry industry with particular focus on Ryobi Aluminium Casting (UK) Ltd'**
Dr Alastair Long, Queens University and Ryobi
- 12.00pm **'Optimisation for methoding'**
Simon Olive, Maxima Engineering
- 12.30pm Lunch break/Exhibition

SESSION B

- 11.30am **'THORS eLearning Solutions (with an update on the new National Foundry Training Centre, ECMS)'**
Trevor Ayre FICME, Thors
- 12.00pm **'Information 4 – advances in melting technology'**
Jon Stear, Inductotherm Europe Ltd
- 12.30pm Lunch break/Exhibition

SESSION C

- 2.00pm **'The advantages of using hot runner tooling in zinc diecasting'**
Calvin Higginbottom, PMS Diecasting Ltd
- 2.30pm **'EGAL clean steel melting and casting at ICS of Florida'**
Bill Laiacono, ICS Florida and Terence LaSorda, Air Liquide Industrial US LP
- 3.00pm **'Application of ADI in a crushed coal delivery and filtering system'**
A Rimmer, ADI Treatments Limited and N J Morrell, The Boro Foundry Ltd
- 3.30pm Coffee/Exhibition

SESSION D

- 2.00pm **'The importance of carbon in greensand systems'**
Nathan Tucker and / or Paul Siddy, James Durrans & Sons Ltd
- 2.30pm **'Latest developments in greensand back to coreshop reclamation'**
Chris Wilding, Omega Foundry Machinery Ltd
- 3.00pm **'Inorganic binders – cleaning up the foundry environment'**
Andrew Tagg, John Winter & Co Ltd
- 3.30pm Coffee/Exhibition

SESSION E

- 3.45pm **'What's next for 3D printing in foundries'**
James Reeves, Voxeljet UK Ltd
- 4.05pm **'Producing complex generative designs for the building industry'**
Roland Stapper, 3dealise
- 4.25pm **'Advancements in simulation technologies to control automotive and achieve top quality castings'**
Badarinath Kalkunte and Marco Aloe, Calcom ESI SA and Ronan Cronin, ESI UK Ltd
- 4.45pm **'Quality in a foundry through workforce motivation'**
- a practical masterclass with Chris Allott, Saudi Mechanical Industries

SESSION F

- 3.45pm **'New developments in waxes for investment casting: materials, technologies and testing'**
Gavin Dooley, Remet UK
- 4.05pm **'The advantages of a pre-mixed slurry'**
Carel Wegman, Ransom and Randolph
- 4.25pm **'Bringing 3D X-ray inspection to the aerospace and automotive castings industry'**
Steve Alderton, GE Sensing & Inspection Technologies

**The Additive Manufacturing Panel Debate will be held at 6.45pm on 27th March. The discussion is supported by the Casting and Solidification Society of IOM3. Chaired by Prof Mark Jolly, Cranfield University, participants include Keith Denholm, Grainger & Worrall and Robert Scudamore, TWI.*

5.15pm **Exhibition close-down and depart**

DELEGATE FEE

The delegate fee includes access to all presentations, exhibition, networking supper, lunch on 28th March and refreshments throughout the event and tour of engineering facilities (discounted delegate places for CMF/FESA companies).

Accommodation not included in delegate fee.

Cost: CMF/FESA member rate - £115.00 +VAT • Non-member - £175.00 +VAT

To book contact Angela Mason at CMF on 0121 601 6397 or email: angela.mason@cmfed.co.uk

APPRENTICES - FREE ATTENDANCE

Delegate fees for apprentices are kindly sponsored by the Tor Lodge and Applecross Trust, www.torlodge.org.uk The Trust may also be able to assist with the cost of travel and accommodation to the event - contact the Trust for more information and to apply, email: clerk@torlodge.org.uk

TABLE TOP EXHIBITION

Table top stands available, includes one free delegate place per stand (discounted stands for CMF/ FESA members).

Reduced price fees for additional delegates. Accommodation not included in stand fee.

Cost: CMF/FESA member rate - £605.00 + VAT • Non-member - £825.00 +VAT

Accommodation

There are two on-site hotels as follows:

Mitchell Hall

has a combination of 114 en-suite single and double occupancy bedrooms, with complimentary parking and WiFi, and full English breakfast included.

Single Room - £80.00 + VAT with advance purchase;

Double Room - £80.00 + VAT with advance purchase

Book directly with Mitchell Hall

(quoting reference 165434)

contact: mhsales@cranfield.ac.uk or Tel: 01234 754301

Cranfield Management Development Centre

has 186 well-appointed double en-suite bedrooms, with complimentary parking, WiFi and full English breakfast included.

Double Room - £108.50 + VAT with advance purchase

Book directly with Cranfield Management Development Centre

(quoting: reference 165448)

contact: cmdcreervations@cranfield.ac.uk

or Tel: 01234 754882