



CONFERENCE – 50 YEARS OF STEEL ALLOY DESIGN

7th-8th November 2019 Cutlers' Hall, Sheffield

#SteelAlloy50

It is 150 years since the founding in the UK of the Iron and Steel Institute – the forerunner of the Institute of Materials Minerals and Mining (IOM3). Over time the steel industry has responded to the ever-increasing demands of end users. There is a false perception that after 150 years there is limited scope for further major improvements in steel but about 75% of the grades used currently have been developed in the last 20 years.

To dispel this misconception the conference is being held in Sheffield, UK, the birthplace of stainless steels. Speakers will review the developments over the last 50 years in steels for the most important market sectors, demonstrating the improvements which have taken place in our understanding of the metallurgy and design of steels. Presenters may also look forward to potential developments in the future. Experts from across the world have been invited to speak and the conference will provide a unique opportunity for industry professionals, academics and students to update their knowledge of commercially important steel grades.

Highlights include:

Physical metallurgy developments over the last 50 years: Professor Sir Harry Bhadeshia (Cambridge University)

Potential steel developments over the next 20+ years: Professor John Speer (Colorado School of Mines)

- Electrical steels: Fiona Robinson (Cogent Power Ltd, Tata Steel)
- Forging steels: Professor Dr-Ing Wolfgang Bleck (RWTH, Aachen University, Germany)
- Autobody steels: Professor John Speer (Colorado School of Mines)
- Rail steels: Professor Jai Jaiswal (University of Huddersfield)
- Aerospace steels: Martin Rawson (Rolls Royce)
- Bearing steels: John M Beswick (SKF Aerospace, France)
- Stainless steels in construction: Andrew Backhouse (Outokumpu Stainless)
- High strength steels in construction: Nancy Baddoo (Steel Construction Institute)
- High temperature steels: Matt Green (Liberty Speciality Steels)
- Pipeline steels: Dr Frank Barbaro (University of Wollongong, Australia)
- Steels for nuclear fusion: Professor Brad Wynne (University of Sheffield)
- Packaging steels: Tim Field (Tata Steel)
- Wear resistant steels: Ylva Granbon (Ovako Group, Sweden)
- Computational alloy design: Kerem Taskin (QuesTek, USA)
- Advanced characterization techniques: Dr Geoff West (WMG, Warwick University)
- Coated steels in construction: Professor Dave Worsley (Swansea University)

For further details and registration visit: <https://www.iom3online.org/steelalloy50>