

The logo consists of the letters 'I', 'M', and '3' in a bold, sans-serif font. A solid black dot is positioned between the 'I' and the 'M'. The background features a grey field with a red triangle on the left, an orange semi-circle on the right, and a yellow vertical bar on the far right.

**I·M3**

**Institute of Materials,  
Minerals & Mining**

**Iron & Steel Awards 2022**

Dr Laura Baker

[iom3.org](http://iom3.org)

# **Adrian Normanton Medal**

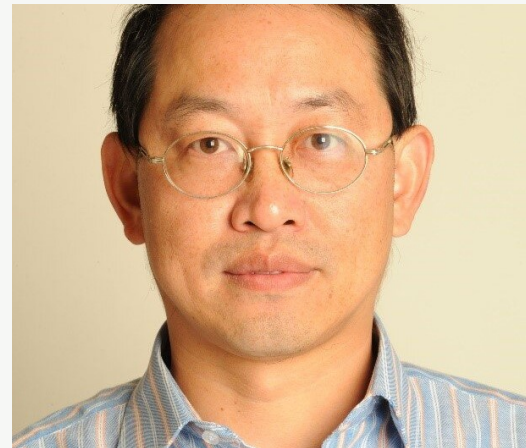
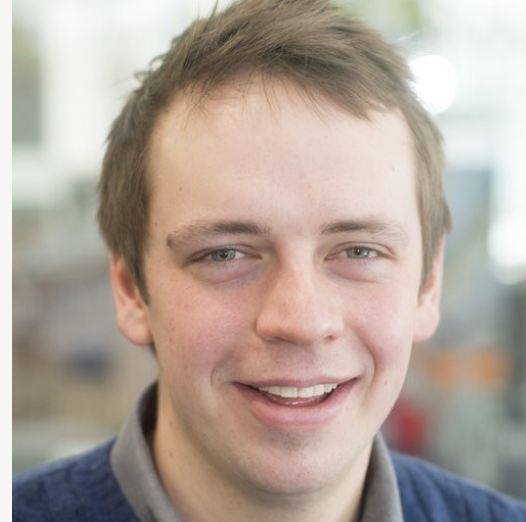
**For the best technical paper on the topic of steelmaking or casting  
published in *Ironmaking and Steelmaking***

# Adrian Normanton Medal

**For the best technical paper on the topic of steelmaking or casting published in *Ironmaking and Steelmaking***

*“Modelling the cumulative effect of scrap usage within a circular UK steel industry – residual element aggregation”*

***Dr Stephen Spooner, Prof Claire Davis and Dr Zushu Li***



# **Frank Fitzgerald Award**

**Awarded to a student or early career\* member of IOM3 who is active in the field of iron and steel and has demonstrated excellence in and commitment to continuing professional development in the form of depth or breadth of technical knowledge, or in a personal contribution to promoting the profession.**

# Frank Fitzgerald Award

**Dr Nathan Cooze**

**Industrial Lecturer in Materials Science and Engineering,  
Swansea University**

- BEng Product Design Technology at Swansea University
- Mres at Swansea University
- EngD at Swansea University in collaboration with Tata Steel.
- Research and teaching posts at Swansea University 2016 – 2021
- Current position as Industrial Lecturer
- Research interests in corrosion mechanisms of next generation zinc-magnesium-aluminium (ZMA) galvanised steel alloys



# **Dowding Medal and Prize**

**In recognition of professional contribution to the invention, development, design or technical operation of metallurgical plant, particularly rolling and finishing, leading to improved economy, yield or quality in metal production**

# Dowding Medal and Prize

**Joe Lee**

**Programme Manager, PRISM**

- MEng degree in Materials Science and Engineering from the University of Sheffield
- MBA from Cranfield University.
- Siemens VAI (based in Sheffield) - installation and commissioning of steel plate mills, led the Process Team for the company's Steel Plate & Aluminium Rolling business worldwide.
- Primetals Technologies - Sales Manager for Steel Plate, Steckel Mills and Aluminium Rolling Mills
- Primetals Technologies - Technical Manager, with responsibility for plate and steckel mill production lines globally
- Programme Manager, PRISM (Programme of Research & Innovation for the UK Steel & Metals Sector), a £22M five-year programme funded by Innovate UK and delivered by the Materials Processing Institute.
- Board Member, Iron and Steel Society, IOM3



# **Tom Colclough Medal and Prize**

**In recognition of a learned contribution to the understanding of microstructure, mechanical properties, fabricability or in-service performance, production or engineering connected with the iron and steel industry**



# Tom Colclough Medal and Prize

**Mr Matt Green**

**Principal Researcher, Liberty Speciality Steels**

- Masters degree in Metallurgy and Science of Materials from Oxford University
- Worked in the UK steel industry for Corus, Tata Steel, British Steel and latterly Liberty Steel.
- Focussed on product development projects associated with plate mills at Scunthorpe and Dalzell
- More recently focussed on highly alloyed steels, for as energy and aerospace.
- Active involvement in collaborative projects with academia and industry throughout his career both in the UK and internationally



# **Stokowiec Medal and Prize**

**In recognition of distinguished work related to the technical, manufacturing, processing or engineering application of alloy steels, including stainless steels**

# Stokowiec Medal and Prize

## Mr Stephen Bastow

**Head of Operations, Steelmaking and Continuous Casting (SMACC), Outokumpu in Sheffield**

- Career focus on production of stainless steel semi-finished products for British Steel Stainless, Avesta into Outokumpu
- Technical education and lab background followed by roles in production and operations
- Executive Committee member for Electric Steelmakers Guild. President of the Guild for 2014-2015.
- Actively involved in initiatives to educate the next generation of steelmakers and the promotion of technical conferences



# **Thomas Medal and Prize**

**In recognition of scientific or technological contribution to the production or secondary processing of any ferrous alloy**

# Thomas Medal & Prize

**Ms Gill Thornton**

**R&D Manager, Liberty Powder Metals Ltd**

- Materials Science at the University of Sunderland and MBA from the University of Warwick.
- Former President, Cleveland Institute of Engineers and Board Member, Iron and Steel Society, IOM3
- Materials Scientist with more than 35 years of experience in the steel industry; roles research, technical management and business improvement.
- Successfully managed large R&D projects with teams of up to 40 researchers, scientists and technicians.
- Expertise in in steelmaking, casting and refractories
- Lead and inspiration for a new powder metals business leading to creation of Liberty Powder Metals Ltd



# Hadfield Medal and Prize

**In recognition of distinguished work in relation to metallurgical practice, process development, product development, metallurgical understanding or design engineering application of all types of steel. This medal can also be awarded in recognition of an exceptional contribution to operational or business management within the steel industry and its value chain**

# Hadfield Medal and Prize

**Dr David Hanlon**

**Scientific Fellow, Tata Steel Europe in the Netherlands**

- First degree in Materials Science and Engineering, University of Sheffield, followed by a PhD also at Sheffield
- Postdoctoral position as part of the IMMPETUS research group
- Moved to the Netherlands Institute for Metals Research at TU Delft in 1998 and joined Corus (later Tata Steel) in 2003
- 25 years experience in fundamental steel metallurgy and product/ process improvement
- Currently responsible for knowledge development and direction setting for high strength automotive steels



# **Gold Medal**

**IOM3 Premier Award presented for significant contribution to the industrial application of materials.**



# Gold Medal

**Dr Richard Thackray**

**Lecturer in Sustainable Steelmaking, Department of Materials Science and Engineering, University of Sheffield (also**

**Director of Recruitment and Admissions for Interdisciplinary Programmes in Engineering)**

- BEng Materials Science and PhD in Metallurgy from Imperial College London
- Postdoctoral research posts at Imperial from 1996-2003
- Joined the academic staff at the University of Sheffield in 2003 as the Corus (now Tata Steel) Lecturer in Steelmaking
- Former Chair of the Iron and Steel Society from 2010 to 2015 and continues as a Board member.
- Current research interests production of steel, including the development and optimisation of mould powders, thermomechanical processing and the effect of residual elements on steel processing and properties
- Involved in a number of projects related to sustainability in steelmaking, including reduction of energy consumption, reuse/recycling of, life cycle assessment of steelmaking processes



# I·M3

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# **Bessemer Gold Medal**

For outstanding services to the Steel Industry

# Bessemer Gold Medal

**Mr John Ferriola**

**Former Chairman, President and CEO Nucor Corporation, USA**

- Began career with Bethlehem Steel Corporation in 1974 and worked for 17 years in various operating and engineering management roles
- Joined Nucor Corporation in 1991 as Manager of Maintenance and Engineering
- General Manager of Nucor's Grapeland, Texas joist fabrication division
- Vice President and General Manager of Nucor's Norfolk, Neb. bar mill
- Vice President and General Manager of the Crawfordsville, Ind. sheet mill
- President of Nucor from 2011 to 2019, when he retired, having served as Chairman, President and CEO
- Led the redevelopment of the steel industry in the USA, redefining the role of the mini mill as a high-quality steel producer and serious competitor to the conventional integrated route.
- Chairman of the World Steel Association in 2016 and 2017
- Chairman of the American Iron & Steel Institute 2016 – 2017
- Chairman of the Steel Manufacturers Association 2012-2014
- Executive Committee member of the National Association of Manufacturers 2017 -2019



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