

# ALUMINIUM NEWS

THE VOICE OF THE UK ALUMINIUM INDUSTRY

ISSUE 18 SEPTEMBER 2023



● UK METALS

● THE SKILLS  
SHORTAGE

● FOUNDATION  
INDUSTRIES

● SUSTAINABILITY  
STRATEGY REVIEW

● HOUSE OF  
LORDS LUNCH

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ALUMINIUM FEDERATION



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# WELCOME EMILY



We're thrilled to introduce the latest addition to the ALFED team, Emily Foster, who has been appointed as our new marketing and communications assistant.

Emily joins ALFED following the completion of her BA (Hons) in International Business and a MSc in Strategic and Digital Marketing, for which she received a distinction.

The main focus in her new role will be to help build and implement communications projects and strategies across the membership.

This will involve promoting ALFED's offerings and engaging with members through various digital social platforms, enhancing the association's online presence in creative and compelling ways.

Front cover image courtesy of Novelis

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## UK METALS JUST AROUND THE CORNER

The UK Metals Expo (13-14 September) at the NEC in Birmingham promises to bring together the businesses from across the metals supply chain and the manufacturing and engineering sectors.

Alongside an extensive lineup, including Rolls-Royce, Network Rail and The Royal Mint, the free to attend event also offers a range of live demonstrations, exclusive product launches and interactive sessions led by industry leaders, such as JCB, Jaguar Land Rover, Stellantis and Boeing.

The conference schedule will see more than 100 industry figures take to the stage during 60 sessions across four theatres - offering invaluable insights into the current state of the metal industry and the emerging technologies and strategies shaping its future trajectory.

Day one of the expo, opens with a keynote by Stephen Kinnock, Labour MP for Aberavon, delving into steel's pivotal role in the modern manufacturing renaissance. This sets the stage for a stimulating panel discussion on bolstering the UK's industrial strategy - including Tom Jones (ALFED), Christopher Greenough (SDE Technology), Gareth Stace (UK Steel), Neil Hodgson (Department for Business and Trade), Paul Byard (FSG Tool and Die Ltd) and Paul Mullins (Kallanish) – sharing insights on economic growth, innovation and long-term sustainability.

Day two carries the momentum forward with a schedule of insightful sessions exploring topics such as offshore wind sector expansion, the viability of recycled metals in manufacturing and sustainable metallurgy.

The ALFED team also invites members and industry representatives to an exclusive 'Meet the Aluminium Industry' networking reception, to be held opposite the ALFED booth, at 4pm on the opening day of the show.

Members will be able to hear an update from our team, as well as network with other visiting and exhibiting industry representatives. Our membership and sustainability manager, Nadine Bloxsome will be moderating a fascinating panel discussion on 'Unlocking the Economic Viability of Recycled Aluminium in Manufacturing in the UK'.

Spaces are at a premium for this event, so please ensure to pre-register on our website at <https://alfed.org.uk/eb-events/meet-the-aluminium-industry/>

## UK METALS – WOMEN IN MANUFACTURING

With more than 30 years' experience in the metals industry as managing director of Professional Polishing Services Ltd and Director and Chair of the British Stainless Steel Association, Kirsty Davies-Chinnock (right) has already seen a lot of change in the sector.

Launching the inaugural Women With Metal Conference, to be held on October 10th at 9:30am at the Park Regis on Broad Street in Birmingham, Kirsty said "There are so many talented women working in the sector and this is an opportunity for us to discuss key topics. I hope the attendees will enjoy the networking opportunity as much as the presentations from a great line up of speakers."

ALFED membership and sustainability manager, Nadine Bloxsome added, "This is a fantastic opportunity for the industry to show some of the developments that have been made for women and for our members to discuss key issues, career development and to network."



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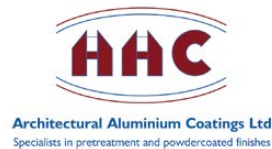
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## FOCUS ON: THE SKILLS SHORTAGE

The metal manufacturing industries in the UK are facing a critical challenge as the supply of skilled workers continues to decline. A survey by FEIN UK revealed that 42% of aluminium businesses believe the skills shortage will significantly impact the industry's future, while 80% of employees feel not enough is being done to attract younger people to the sector.



To remain competitive and embrace new opportunities in technologies, businesses in the aluminium sector require expertise in materials science, metallurgy, welding, and circular economy approaches to address sustainability and environmental concerns. This necessitates recruitment, training, and re-qualification at all levels, from skilled apprentices to senior management.

Cranfield University offers valuable Master's level programmes tailored to industry needs. These programmes, such as Advanced Materials, Metal Additive Manufacturing, Welding Engineering, and Sustainability, provide world-class expertise and access to labs and facilities. They are specifically designed for working professionals, with part-time options, enabling students to balance learning with work commitments. Start dates are flexible and rather than expecting employees to attend sessions every week, through a typical academic year, courses at the University are structured into one or two week periods.

Cranfield University was originally the College of Aeronautics, created in 1946 and based at the RAF station in Cranfield, Bedfordshire. Through the 1950s and 1960s, the development of many aspects of aircraft research and design led to considerable growth and diversification into other areas such as manufacturing and management.

The University also collaborates closely with metal manufacturing businesses on Master's level apprenticeships. The apprenticeships content is customised to meet specific employer needs and link academic study with real-life projects, making them beneficial for upskilling current staff and recruiting new talent.

### How can you engage with us and our students?

Engaging with Cranfield University and its students provides access to unique metal manufacturing facilities, including clean rooms, high-temperature coatings and materials characterisation facilities, and advanced arc welding and laser capabilities.

Students are actively involved in research projects that address industry challenges, further tailoring their training to meet practical needs. MSc students and apprentices take on short-term research around current issues and interests proposed by companies, acting as a means of tailoring the focus of training. Companies also partner with Cranfield for long-term Master's degrees with research and PhD student projects.

For companies seeking to deepen their involvement with Cranfield, Knowledge Transfer Partnerships (KTPs) offer opportunities for collaboration in new product development, process improvement, and sustainability initiatives. A KTP involves a three-way collaboration between the company, the University, and a qualified graduate, driving innovation and expanding capabilities, with support from Innovate UK.

Addressing the skills gap and meeting industrial and technical needs requires more proactive partnerships between businesses and specialist universities like Cranfield. By equipping employees with the right skills and fostering a culture of innovation, businesses can develop, drive forward research and development, access new networks, and tap into a pool of talented postgraduate students.

The struggle to recruit trained talent was expressed again by participants involved with this year's EnvironmentAI ALFED event on 1 June - with criticisms aimed at the inadequacy of university programmes to support industrial and technical needs.

Proactive partnerships between industry and specialist universities like Cranfield are needed to address the skills gap and help businesses take advantage of current and emerging opportunities. The benefits don't only come from equipping employees with the right skills, but much more widely, in business development, driving forward R&D, creating a culture of innovation, opening up new networks - and having access to pools of post-graduate talent studying at the University.

*Dr Eloise Eimer, Senior Research Fellow in Additive Manufacturing, Welding and Additive Manufacturing Centre, Cranfield University. Details of relevant courses and KTPs can be found at [www.cranfield.ac.uk](http://www.cranfield.ac.uk)*

Supporting industry growth and collaboration is an Aluminium Welding Technology event co-hosted by ALFED, Cranfield University and Fronius UK. Taking place on 27th September in Milton Keynes, the event will offer demonstrations and discussion on the aluminium industry and feature speeches from leading industry experts. Cranfield University will present on topics ranging from Metal Additive Manufacturing for AI and laser welding.

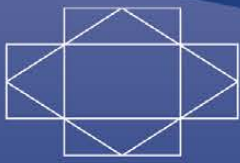
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# A NETWORK+ IN SUSTAINABLE FOUNDATION INDUSTRIES: TRANSFORMING THE FUTURE THROUGH COLLABORATION AND INNOVATION

Continuing our efforts to promote sustainability and innovation for the industry, ALFED is pleased to share some of the latest and most exciting developments from the Transforming Foundation Industries Network plus (TFIN+).

This network, which brings together more than 660 members from academia and foundation industries, has been pivotal in fostering collaboration and knowledge exchange to address common challenges faced by industries such as ceramics, glass, cement, metals, paper, and chemicals.

The foundation industries comprise more than 7,000 businesses, a workforce of more than 250,000 and a combined turnover of £67.5 billion. They are also the largest consumers of natural resources and industrial polluters, generating 10% of all the UK's CO<sub>2</sub> emissions. The strategic importance of these industries to the UK economy is highlighted by the allocation of £147.5M by UKRI and partners towards capital investment.

The TFIN+ initiative is centred around highlighting key projects that have the potential to revolutionise industry and the wider metals industry, with a focus on heat recovery, energy efficiency, and emission reduction. We wanted to share some of the important research, that is particularly relevant to aluminium, with our members, to demonstrate the type of projects that promise to help shape a greener and more sustainable future.

## Flat heat pipe for high-temperature waste heat recovery

One of the standout projects within the TFIN+ is the work of Professor Hussam Jouhara and the Heat Pipe and Thermal

Management Research Group at Brunel University London.

They have made significant strides in the area of waste heat recovery from high-temperature sources such as slags and slabs, which are prevalent in several foundation industries.

Their innovation, the Flat Heat Pipe (FHP) system, utilises a two-phase transfer process to passively move heat from the hot zone to a heat sink, effectively recovering up to 800 W/m<sup>2</sup>.

The potential applications of this technology are vast, especially in heat-intensive industries like the metals sector, where it could significantly benefit processes like wire extrusion and cooling.

The development of the new FHP system could mark a turning point in heat recovery practices, offering a more energy-efficient and sustainable solution for industries grappling with high-temperature waste heat. As we strive for a greener economy, these type of advancements in heat recovery are set to be vital.

## Data-driven optimisation framework for energy and emissions savings

Dr. Alessandra Parisio from the University of Manchester, in collaboration with Palm Paper, has spearheaded a data-driven optimisation framework aimed at assessing energy and cost savings in foundation industries.

By meticulously modelling and analysing various production activities, the project identified substantial potential for reduction in gas and electricity consumption in paper production through the implementation of a Model Predictive Controller.

The results of this research indicate that a projected energy saving, ranging from 10% to 50%, could potentially be achieved. The principles underlying this framework can be extrapolated to the broader metals sector, making it highly relevant and applicable for ALFED members, especially as our industry drives toward more sustainable manufacturing practices.

By adopting this data-driven optimisation approach over time, industries can not only reduce their environmental footprint, but also enhance their operational efficiency, ultimately contributing to a wider goal of a more sustainable future for all.

## Accurate emissivity characterisation of metals for enhanced process optimisation

Another remarkable project arising from the TFIN+ is the research conducted by Dr. Matthew Hobbs from the University of Sheffield, in collaboration with PyrOptik Instruments Limited.

Continued on page 10....





## THOUGHT LEADERSHIP

They have developed an innovative optical technique capable of accurately measuring a material's emissivity as a function of wavelength and temperature.

The importance of emissivity in infrared radiation thermometry cannot be overstated, as it enables precise temperature measurement critical for process optimisation. By employing this cutting-edge technique, the foundation industries can look to improve manufacturing process temperature measurements and heat transfer models. This, in turn, paves the way for substantial energy savings and carbon emission reduction.

The potential application of this research extends beyond temperature measurement; it offers a pathway to enhancing material quality and overall profitability. With a focus on reducing energy usage and improving process efficiency, the findings from this project could revolutionise the way foundation industries operate in the future.

As with the other key research highlighted, this also provides key findings that can potentially be specifically applied to our industry and the wider metals sector.

### Research reflection and industry impact

The results of the three highlighted research projects demonstrates the vital role that collaboration between academia and industry plays in shaping a sustainable future.

At ALFED, we're fortunate to be in a position to support and be involved in such a transformative journey, using our platform to share the incredible research currently taking place. We are also fully committed to exploring further avenues for research and progress, taking lessons from academia, other industries and our own learnings.

We recognise the immense potential the key research projects have to positively influence and enhance the future of the aluminium industry. As such, we encourage our members to embrace and explore these innovations by considering their applications within their core operations and continuing to ask questions. By fostering a culture of collaboration and knowledge sharing, ALFED aims to inspire further innovation and developmental projects.

By embracing these type of advancements and integrating more sustainable

practices, we move collectively toward a more resource-efficient, environmentally friendly, and economically viable future for all.

The Transforming Foundation Industries Network plus (TFIN+) has proven to be an invaluable platform for collaboration and knowledge exchange among academia and industry.

Spotlighting three pioneering projects aimed at heat recovery, energy efficiency, and emission reduction, showcases the transformative potential of research and innovation in the foundation industries. The Flat Heat Pipe (FHP) system, the data-driven optimisation framework and the accurate emissivity characterisation technique are prime examples of how academia-industry partnerships can lead to groundbreaking solutions.



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### Magazine

Published six times a year in both print and digital, AIT is an English language journal dedicated to the production and processing of aluminium.



### Website

[www.aluminiumtoday.com](https://www.aluminiumtoday.com) is packed with all the latest aluminium news, special articles and interviews with leading industry figures.



### Newsletter

You can register online to receive the weekly newsletter and keep up-to-date with the latest news from across the aluminium manufacturing industry. Sign up at [www.aluminiumtoday.com/register](https://www.aluminiumtoday.com/register)



### Directory

The Directory is the essential guide to aluminium manufacturers, suppliers of plant equipment and services to the aluminium industry. Published annually it provides comprehensive company listings, product information and key contact details.



### Online Events

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Meet us on **Stand D38** at the **UK Metals Expo** (13-14 September 2023, NEC) to pick up your free copy of the September issue.

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## ENVIRONMENTAL SUSTAINABILITY STRATEGY DAY

Earlier this year (1 June), professionals from across the UK's thriving aluminium supply chain all came together at BMA House in London for ALFED's first Environmental Sustainability Strategy Day.

The event brought together more than 120 members, guests, Government representatives, industry experts and sustainable solution suppliers to share insights and discuss the fundamental issues surrounding reaching Net Zero in the aluminium sector.

Alongside the opportunity to share successes, explore new opportunities and discuss some of the sector's most pressing topics, the event also explored stringent environmental legislation and looming sustainability targets, decarbonising the supply chain and accelerating its transition towards Net Zero - all of which are set to define the aluminium industry for years

to come. Following a keynote address from Lord Rupert Redesdale exploring carbon content, the programme featured presentations from organisations including Zenergi, Fast Forward Zero, Open Energy Market and the Department for Energy Security and Net Zero, among others.

During the course of the afternoon, a number of panel

discussions covered key topics such as greenwashing, carbon leakage and eliminating waste - bringing together key thought leaders from across industry, policy, sustainability and academia all in one place. Q&A sessions with the audience followed, enabling the panellists to share their personal views on critical issues.

ALFED also used the inaugural event as an opportunity to announce its own plans to launch two exciting new member initiatives to support the sector's transition to Net Zero. The announcement comes as part of a wider move to support the supply chain's knowledge surrounding environmental, social and governance (ESG) and increase wider awareness of aluminium outside of the sector.

The ALFED-accredited ESG officer training programme, announced at the event, will provide resources and support representatives from ALFED members in becoming proficient in ESG to support with sustainability transition.

While the outlined 'Aluminium Ambassadors' initiative, in partnership with Bloodhound Education, will train and equip professionals from across the industry to go into educational and corporate settings to deliver informative talks and run EnvironmentalAI trained workshops, designed to spark subject and career interest.







Aluminium Ambassadors will be industry role models, trained and equipped to engage directly with students, teachers and parents in education and community settings. This will range from career talks to hands-on activities designed to bring the curriculum to life and showcase the aluminium industry as an attractive career path. They will promote positive images of the industry, bring complex and innovative technologies to life, and reach a wider and more diverse audience.

Ambassadors will provide ALFED member networking opportunities, sharing of good practice across the sector groups and coordinated and continued engagement partnerships. All Ambassadors will keep a log of outreach engagement and this data will be collated and reported to ALFED to show the reach and impact of activities.

Nadine Bloxsome, membership and sustainability manager at ALFED commented: "The introduction of our ESG member initiatives was a key part of our inaugural Environmental Sustainability Strategy Day in London. We wanted to provide greater support for the supply chain and drive awareness of aluminium outside the sector.

"Both the ESG officer training programme and the 'Aluminium Ambassadors' initiative will support proficiency and upscale knowledge, in order to better share information across the industry and beyond. This can only be a good thing as we work towards a sustainability transition."

Discussing the Environmental Sustainability Strategy event as a whole keynote speaking, Lord Rupert Redesdale, commented: "ALFED's sustainability strategy day was packed full of insights from Government and the industry on the policies needed to deal with the opportunities and threats that carbon and the wider environmental agenda will place on the aluminium sector. It was a well-attended day that was really valuable to those there."

Charles Keen, board member at ALFED, added: "My plea to UK government is to engage substantially with the industry on Net Zero, not via a public consultation, but directly with the strategically important industrial sectors.

"The government needs to have an industrial strategy that enables Net Zero. It's not about subsidies, it's about government engagement and action, facilitating and enabling – making it easy, cutting through the complexity."

Tom Jones, ALFED's Chief Executive Officer, commented: "The aluminium industry is a vital part of the manufacturing sector and an essential component of the UK economy, playing a key role in our national transition towards a more sustainable future.

"At our inaugural Environmental Sustainability Strategy Day, we brought together some of the supply chain's most notable voices. Alongside the realities of decarbonisation, they shared valuable insight on the Net Zero imperative, the drive to make carbon reduction commercially viable and the need to build on a robust strategy to carve a new path for the future."





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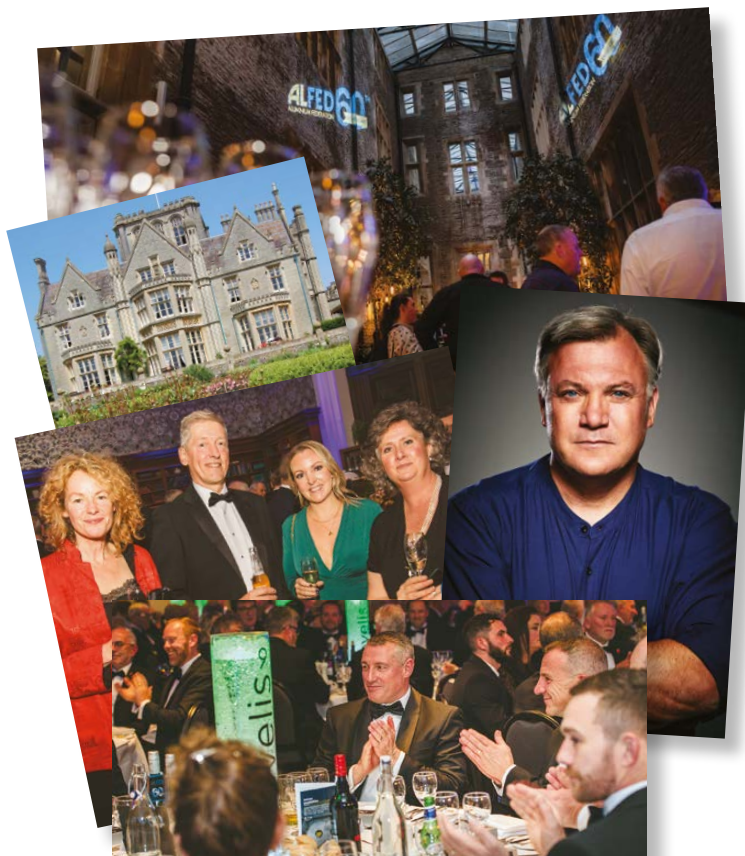
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We are delighted to announce the upcoming Aluminium Federation (ALFED) Business Briefing and Annual Dinner. Taking place on Thursday 30th November, this year's event is once again being held at the prestigious Tortworth Court Hotel, South Gloucestershire. Another fantastic networking opportunity, the annual event is filled with valuable insights and followed by an elegant black-tie dinner - all set in the picturesque Gloucestershire countryside.



Last year's dinner was a resounding success, with tickets selling out quickly and more than 250 aluminium industry professionals in attendance. The event proved to be an excellent platform for fostering new connections, and strengthening existing ones. This year, we are anticipating another stellar turnout, with representatives from various sectors of the aluminium industry coming together.

The day will begin with an ALFED Business Briefing and feature a full programme of industry speakers. Experts will share their knowledge and insight on a range of topics crucial to the aluminium industry's current and future success. Attendees will be updated on the latest transformational trends, innovative practices, strategic approaches, and sustainable solutions.

### Our speakers include:

#### Timothy Stock

Head of Embodied Emissions Reporting - Industrial Decarbonisation at Department for Business, Energy and Industrial Strategy (BEIS).

#### Malindi Myers - Bank of England

As the representative from the Bank of England, Malindi Myers will shed light on the economic outlook and factors influencing the aluminium industry.

#### Paul Williams - CRU

Paul Williams, from CRU, will present on market analysis, dynamics and future trends in the aluminium industry.

#### Christian Mildner - London Metal Exchange (LME)

Christian Mildner will take the stage to discuss the role of the London Metal Exchange in shaping the aluminium market.

#### Miles Prosser - International Aluminium Institute (IAI)

Miles Prosser, from the International Aluminium Institute (IAI), will share insights on sustainability and environmental initiatives within the aluminium industry.

### Special Guest Speaker

We are also thrilled to announce that this year's event will feature a special after dinner guest speaker: renowned former politician, Strictly star, broadcaster, writer, economist and former cabinet minister, Ed Balls. With a wealth of experience and insights into current affairs, politics, and industry trends, Ed Balls will undoubtedly add a whole new dimension of knowledge and perspective to this year's ALFED event.

Ed was formerly the UK Economic Secretary and Minister for Financial Services from 2006-2007, and the Chief Economic Adviser to the UK Treasury from 1997-2004, during which time he was the Chair of the International Monetary Fund Deputies and UK G20 Deputy.

Away from Westminster, Ed is still an economist and British Labour Party politician. He is the Senior Fellow at Harvard University Kennedy School's Mossavar-Rahmani Center for Business and Government and Visiting Professor to the Policy Institute at King's College London. He also actively blogs and writes speeches on the issues affecting the current economic climate.

After a day filled with valuable information, enlightening discussions and thought-provoking speeches, attendees can then look forward to an exquisite black-tie evening dinner.

So be sure to mark your calendars and book in ahead for this unmissable event that promises to be a highlight of the aluminium industry's calendar. Keep an eye out across our channels for further details and updates on registration.

We look forward to welcoming you to the event to celebrate the industry, foster innovation and discuss how collaboratively we can drive the sector in the ever-evolving landscape of aluminium production and processing.





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## THE NEED FOR COLLABORATION WAS TOP OF THE AGENDA AT THE HOUSE OF LORDS LUNCH

Collaboration and development were key topics on Tuesday 20 June, as ALFED hosted members from across the aluminium supply chain at the House of Lords for its annual parliamentary lunch.

Hosted by Lord Rupert Redesdale, the event highlighted important issues relating to the sector at the highest level within UK government.

Held in the Cholmondeley Room Terrace, the lunch comprised three keynotes from thought leaders within the industry. Mike Dines, director of Tandom Metallurgical Group, discussed the opportunities and challenges facing the aluminium supply chain, while Miles Prosser, secretary general at the International Aluminium Institute, shared a powerful presentation focusing on the future of the industry and the driving role of sustainability.

Later, Paul Voss, director general at European Aluminium, concluded the event by providing key insights from a European perspective.

Tom Jones, chief executive officer of the Aluminium Federation, commented: "ALFED's annual parliamentary lunch is a highly regarded event in the industry calendar.

"The sector plays a vital role in the UK economy and our members relish the opportunity to raise key issues with the highest levels of UK government. We work hard to secure keynote speakers who are respected within the industry and this year was no different."

Mike Dines, president of ALFED, added: "Alongside sharing unique insight into the aluminium value chain across the UK and Europe, the presentations highlighted the importance of the collaboration and development within the industry.

"Our members are working on some very exciting projects that will help further the aluminium sector, so it was great to discuss these with businesses as we look to transition to a more sustainable future."

Paul Voss, director general at European Aluminium, commented: "I was delighted to speak at ALFED's recent annual House of Lords lunch to discuss the European aluminium market outlook with ALFED members representing the entire value chain.

"Unfortunately, the current state of affairs does not paint a rosy outlook. The EU's aluminium industry has suffered a significant blow, with a distressing decline of 50% in its primary production since the energy crisis unfolded. This decline starkly contrasts the growing demand for aluminium, driven by its crucial role in countless clean technologies, from solar panels to electric vehicles.

"Now, more than ever, like-minded regions must join forces, ensure an appropriate degree of self-sufficiency, and reduce our dependence on non-market economies for fulfilling our aluminium needs. Let's continue to be a united front, facing this challenge head-on, and pave the way for a brighter, sustainable future for our industry."

This year's House of Lord's lunch undoubtedly raised key questions and promoted further debate amongst attendees. It is vital that issues such as political support, supply chain management and the energy crisis continue to be discussed in open and collaborative environments to drive a better tomorrow for all.





## SEPTEMBER 2023

### UK METALS EXPO

**Date:** Wednesday 13th September  
**Venue:** Hall 10, NEC

UK Metals Expo is a new event bringing the entire metals supply chain together with the engineering and manufacturing sector. From primary metal manufacture to supply chain management, processing metals, metal fabrication, machinery, engineering, surface coatings and recycling.

**Find out more:** <https://ukmetalsexpo.com/>

### MEET THE ALUMINIUM INDUSTRY

**Date:** Wednesday 13th September  
**Time:** 4.00pm – 4.45pm  
**Venue:** Hall 10, NEC Innovation & Technology Theatre 3, opposite the ALFED Booth (E26)

With the 2023 UK Metals Expo expected to double in size from last year's inaugural event, the ALFED team would like to invite all members and wider industry representatives to attend a dedicated networking reception, which will be held at the end of the opening day of the show. Members are invited to meet and hear an update from the ALFED team, as well as network with other visiting and exhibiting industry representatives for a drink as the first day comes to a close.

**Find out more:** <https://alfed.org.uk/eb-events/meet-the-aluminium-industry/>

### ALFED BREAKFAST BRIEFING

**Date:** Tuesday 19th September  
**Time:** 8.30am – 10.30am  
**Venue:** House of Commons, Cromwell Green, London SW1A 0AA

Future impacts of imports and exports – the significance of trade for the UK economy.

This Briefing aims to provide industry stakeholders with valuable insights into the evolving landscape of aluminium trade, with a specific focus on aluminium imports.

The event will serve as a platform for ALFED Members, policymakers, and business leaders to discuss the challenges, opportunities, and potential strategies to navigate the changing dynamics of the UK aluminium market.

Participants will have the opportunity to identify potential growth areas, strategic collaborations, and supply chain optimisation to enhance their competitive position in the UK aluminium market.

The Breakfast Briefing will be jointly hosted by ALFED's President, Mike Dines, Director, Tandom Metallurgical Group, and Philip Dunne MP.

**Find out more:** <https://alfed.org.uk/eb-events/alfed-breakfast-briefing-2/>

### ALFED ANNUAL GENERAL MEETING

**Date:** Thursday 21st September  
**Time:** 10.00am  
**Location:** Virtual

The Sixtieth Annual General Meeting, open to all ALFED Members. However, ALFED members may appoint a proxy, to attend and vote instead of him/her – the instrument appointing such proxy must be deposited at the registered office of the federation not less than 48 hours before the meeting.

**Find out more:** <https://alfed.org.uk/eb-events/alfed-annual-general-meeting-2/>

### ALUMINIUM WELDING TECHNOLOGY EVENT

**Date:** Wednesday 27th September  
**Time:** 9.30am – 3.30pm  
**Venue:** Fronius UK, Maidstone Road, Milton Keynes, MK10 0BD

Fronius, ALFED and Cranfield University are joining forces to bring you a day jam-packed with demonstrations and talks surrounding the topic of joining aluminium. This free event will be ideal for anyone working with this material that wants to work more efficiently.

**Find out more:** <https://www.eventbrite.co.uk/e/aluminium-welding-technology-event-tickets-680714193477?aff=oddtcreator>

## OCTOBER 2023

### WOMEN WITH METAL CONFERENCE

**Date:** Tuesday 10th October  
**Time:** 9.30am  
**Venue:** Park Regis Hotel, Birmingham.

We are delighted to launch the inaugural Women With Metal Conference, arranged and hosted by Kirsty Davies-Chinnock, Managing Director of Professional Polishing Services Ltd and Director and Chair of the British Stainless Steel Association.

With speakers focused on your career development, CPD, and networking opportunities the day event is targeted at women working within the metal industries in the UK.

**Find out more:** <https://www.eventbrite.co.uk/e/women-with-metal-tickets-617097413977>



### ALFED ALUMINIUM LIGHT TRAINING COURSE

**Date:** Tuesday 17th October  
**Time:** 9.30am  
**Venue:** Bragborough Hall Business Centre, Welton Road, Braunston, Daventry, Northamptonshire NN11 7JG

A tailored course on aluminium as a strategic metal and a basic introduction for existing staff or new starters who don't have a technical background.

**Find out more:** <https://alfed.org.uk/eb-events/aluminium-light/>

### ALUMINIUM AUTOMOTIVE SHEET TRAINING COURSE

**Date:** Monday 30th - Tuesday 31st October  
**Venue:** Bragborough Hall Business Centre, Welton Road, Braunston, Daventry, Northamptonshire NN11 7JG

Hosted by Innoval Technology, this course is principally aimed at engineers, scientists, technologists, quality control personnel and other professionals in the aluminium and automotive industries who are interested in deepening their knowledge of aluminium automotive sheet.

**Find out more:** <https://alfed.org.uk/eb-events/aluminium-automotive-sheet-training-course/>

## NOVEMBER 2023

### FOIL FOR CONVERTED PRODUCTS TRAINING COURSE

**Date:** Tuesday 7th November  
**Venue:** Bragborough Hall Business Centre, Welton Road, Braunston, Daventry, Northamptonshire NN11 7JG

Hosted by Innoval Technology, this course is principally aimed at technical and non-technical staff working for aluminium foil converters in the packaging industry. The focus of the course is thin foil rather than thicker container foils.

**Find out more:** <https://alfed.org.uk/eb-events/aluminium-foil-for-converted-products/>

### ALFED WORLD OF ALUMINIUM

**Date:** Tuesday 14th November  
**Time:** 9.30am  
**Venue:** Bragborough Hall Business Centre, Welton Road, Braunston, Daventry, Northamptonshire NN11 7JG

The World of Aluminium is an intermediate level technical course specifically designed for production engineers, process and quality technicians, stockholders, customer facing sales/marketing persons and material/product purchasing materials.

**Find out more:** <https://alfed.org.uk/eb-events/world-of-aluminium-2/>



## A MODERN APPROACH TO BEHAVIOURAL SAFETY

**Date** 26th - 27th September, 2023  
and 14th – 15th November, 2023  
Two-day course

**Price:** £350pp / £300pp ALFED Members

Some organisations may be just starting out on their behavioural safety journey, but many will have had previous iterations of a safety programme. No matter how excellent your programme is or has been, reviewing and updating the programme in line with the latest science allows the programme to remain fresh, engaging and to continue to affect behaviour.

This two-day course has been developed by Implexis Consulting to offer leaders an understanding of the current science and to introduce new practical tools which they can use in order to continue to improve the culture.

### Course learning outcomes

At the successful completion of this course the participants will:

1. Have gained a practical understanding of the human brain and how this impacts both safety in terms of risk, and health in terms of mental health
2. Have gained practical tools which they can take back and use with their teams
3. Have gained an understanding of their impact on organisational trust and how they can develop trust and motivate their team

## INSPIRING SAFETY LEADERSHIP

**Date** 23rd - 24th October, 2023  
and 9th – 10th January, 2024  
Two-day course

**Price:** £350pp / £300pp ALFED Members

Great safety leadership is a key component in driving safety culture excellence. Therefore, it is essential that leaders understand the roles that they play within their organisation's health and safety culture. Leaders must be able to demonstrate their personal commitment to safety and be able to set realistic and meaningful objectives for others.

### Course learning outcomes

At the successful completion of this course the participants will:

1. Have an in-depth understanding of safety leadership and how it drives day to day behaviours
2. Have gained an understanding of the value of empowerment of staff
3. Have a range of tools that they can use to lead safety



## THE PSYCHOLOGY OF INCIDENT INVESTIGATION

**Date** Tuesday 5th December, 2023  
One-day course

**Price:** £175pp / £150pp ALFED Members

Incident investigation training is often focused on the process of the investigation with the aim of identifying root causes through the creation of a precise timeline. Unfortunately, human memory does not work in this way and it is the human element of the investigation that is often missed in other programmes.

In this one-day course, we look at how to gain the best out of an interview through the creation of the right environment and the use of cognitive and trauma informed interviewing techniques to ensure the best possible information upon which to base your findings.

### Course learning outcomes

At the successful completion of this course the participants will have gained:

1. An understanding of the structure of the brain and understand what happens to memory during an incident
2. An understanding of how to maximise the effectiveness of the interview process
3. An understanding of how to setup an interview from the human perspective
4. The ability to use cognitive and trauma informed interviewing techniques in the workplace



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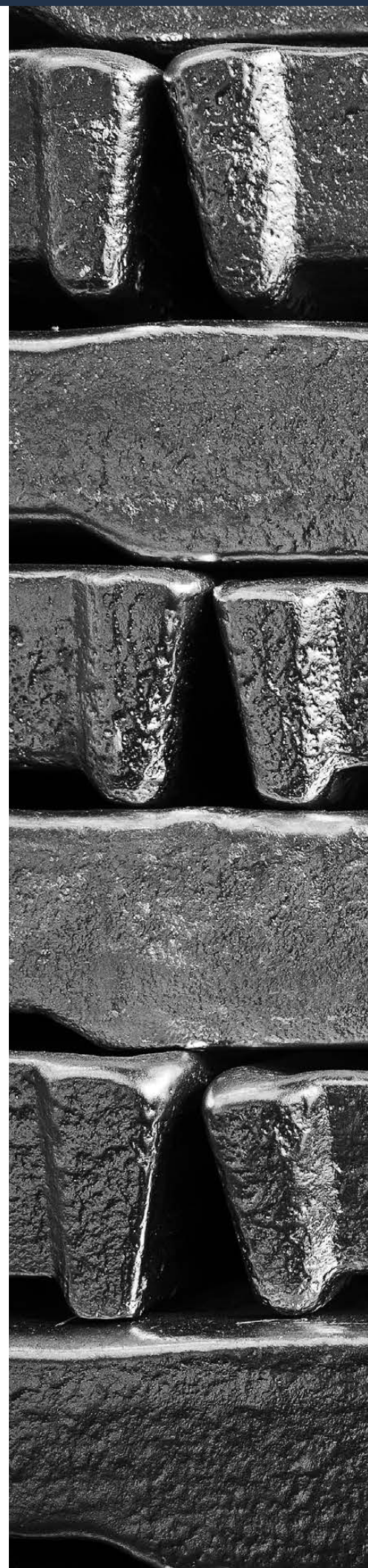
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