

ALUMINIUM NEWS

THE VOICE OF THE UK ALUMINIUM INDUSTRY

ISSUE 9 MAY 2021



• ALFED
• HOUSE
• OF LORDS
• LUNCH
• 20 JULY 2021

• ALFED ANNUAL
• DINNER/ASA
• DUTCH PARTY &
• BUSINESS BRIEFING
• 25 NOVEMBER 2021

• BENEFITS OF
• WELDING
• STRUCTURAL
• ALUMINIUM WITH
• ADJUSTABLE MODE
• BEAM FIBER LASERS

• ALFED HEALTH,
• SAFETY &
• ENVIRONMENT
• CONFERENCE
• 5 OCTOBER 2021

• BECOMING A
• FULLY CIRCULAR
• AND CARBON
• NEUTRAL BUSINESS
• BY 2050

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ALUMINIUM FEDERATION

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twitter.com/alfedaluminium

DIARY DATES

JUNE

2-3 Greener Aluminium online summit
8 Digital sales programme: 8, 15, 22 & 29 June and 6 & 13 July (training course)
9 Corrosion & Protection of Aluminium (webinar)
15-16 Middle management for peak performance in a complex world: Managing yourself ILM5 (training course)
15-16 15-16: World Aluminium Conference Series 2021
17 ALFED Board Meeting
17 ALFED Annual General Meeting
17 ALFED Health, Safety & Environment Support Group (members meeting)
22 Extrusion Sector Group (members meeting)
24 Casting Technologies (webinar)

JULY

6-7 Middle management for peak performance in a complex world: Managing managers ILM5 (training course)
7-8 Welding of Aluminium (training course)
14 Aluminium Distribution Sector Group (members meeting)
20 ALFED House of Lords Lunch (members meeting)
21 ALFED Finishing Sector Group (members meeting)

SEPTEMBER

7 ALFED Extrusion Sector Group (members meeting)
7-8 Middle management for peak performance in a complex world: Managing within the organisation ILM5 (training course)
14-15 Aluminium Casting and Processing (training course)
16 Introduction to Aluminium (webinar)
21 ALFED Recycling Sector Group (members meeting)
23 ALFED Health, Safety & Environment Support Group (members meeting)
26-28 FIT Show (exhibition)
28-29 World of Aluminium (training course)
30 Production of Aluminium & Global Demand (webinar)

OCTOBER

5 ALFED Health, Safety & Environment Conference (open to all)
7 ALFED Finishing Sector Group (members meeting)
13 Aluminium Distribution Sector Group (members meeting)
14 Wrought Aluminium & Applications (webinar)
28 Heat Treatment of Aluminium (webinar)

NOVEMBER

3-4 Advanced Engineering Show (exhibition)
11 Elastic & Plastic Behaviour of Metals (webinar)
15-18 Aluminium for Engineers (training course)
24 Production of Wrought Aluminium (webinar)
28 ALFED Annual Dinner/ASA Dutch Party & Members Briefing (open to all)
30 ALFED Extrusion Sector Group (members meeting)

DECEMBER

1 ALFED Recycling Sector Group (members meeting)
7 ALFED Health, Safety & Environment Support Group (members meeting)
9 Extrusion (webinar)
9 ALFED Board Meeting

FOR MORE INFORMATION PLEASE VISIT:

EVENTS:

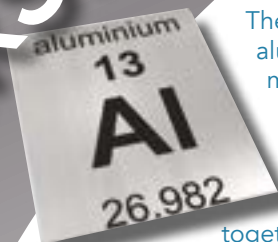
www.alfed.org.uk/aluminium-federation-events/

TRAINING:

www.alfed.org.uk/alfed-training/training-with-alfed/#ourcourses

MEMBERSHIP

ALUMINIUM FEDERATION IS THE VOICE OF THE UK ALUMINIUM INDUSTRY



The Aluminium Federation represents businesses who process, trade and work with aluminium. We foster innovation, promote best practice, develop skills and champion member interests. From training and networking to research, advocacy, lobbying and outreach, we help our members solve problems, capitalise on opportunities and boost their competitiveness.

As a member, you become part of an influential community, getting your voice heard within the industry and at the highest levels of government. Working together, we are actively driving UK aluminium forward - and we look forward to working with you in this endeavour.

COLLABORATION:

We bring together recycling and secondary producers, extruders, finishers and stockholders – helping everyone involved in UK aluminium make connections for mutually beneficial business and supply development.

INNOVATION:

You benefit from a range of services that help you stay at the cutting edge. From research and development through to industry benchmarking and technical support, you get insight that assists you to develop your business.

OPPORTUNITY:

We give you a unique opportunity to get your voice heard - within the industry and in government. Whether you're a global company or an SME, you can advocate and influence to improve market conditions for your products and services.

MEMBER BENEFITS:

Benefit from a range of services that help you develop your business, workforce and supply chain:

- Advocacy & lobbying
- Market insight
- Training
- Technical support
- Consultancy from energy management support to bespoke training, coaching and e-learning
- Events
- Influence & Policymaking
- Shared Learnings & Networking
- Savings & Partnerships

WHY JOIN THE ALUMINIUM FEDERATION

Whatever your company size or speciality within the industry, we help you access the technical expertise, market insight, business support and government influence you need to boost your competitiveness.

We offer different levels of membership based on your business size – so it's both affordable and valuable.

"As an ALFED member, you get your voice heard. We're a small metal finishing company, but I get my voice heard very loudly. When I was the ALFED President, this gave me influence at a high level with government – I was routinely on calls with ministers and civil servants. And I had my voice heard even before I was president. In 2004, the British standard changed to an EU-wide one that was much weaker. I campaigned to change it, and as an ALFED member, I had a say via the Finishing Group. I got my opinions over, and the standard is now changing. It was a real success for our business."

Giles Ashmead, Director,
Powdertech

**CONTACT US
TO DISCUSS HOW
ALFED MEMBERSHIP
CAN HELP YOUR
BUSINESS**

T: 0330 236 2800

www.alfed.org.uk

ALFED
ALUMINIUM FEDERATION

EVERYTHING WE DO FOCUSES ON HELPING UK ALUMINIUM BUSINESSES CAPITALISE ON OPPORTUNITIES

PREDICTING THE FUTURE IS HARD



Forces beyond our control are affecting all aspects of our lives in a way we have never experienced before and adapting our domestic and professional lives has been challenging particularly to our wellbeing and mental health.

Growing vaccine coverage starts to lift our spirits as the UK starts to unlock and return to the new normal of daily activity. The strength of the recovery will depend on a rapid rollout of effective vaccines in the UK and worldwide as we start to assess the full impact of the pandemic on our business, our supply chains, and the economies we trade with, all this is remaining unclear.

The International Monetary Fund (IMF) is forecasting a strong recovery for the UK predicting growth in 2021 of 5.3% and 2022 of 5.1% leading the recovery in Europe along with France and Spain. Forecasts for India and China's recovery are double digit growth over the next 2 years adding greater pressure on Europe to increase domestic investment in manufacturing.

The Government is anxious to give a clear lead on climate change in the run-up to the international Cop26 talks which the UK is hosting in Glasgow in November leading to the UK to speed up its climate change agenda. UK will set a course to cut carbon emission by 78% by 2035 according to Boris Johnson. Reaching this ambitious target would require more electric cars, renewable energy, low carbon heating for our homes and workplace and reducing our consumption on meat and dairy. For the first time legislation will include international aviation and shipping.

The cost of achieving these targets of investment in the low carbon future of 50bn a year and the Climate Change Committee reports around 1% of the UK GDP would need to be spent on investment in greener energy and moving away from fossil fuels over the next 30 years.

In 2018, cars and vans accounted for nearly a fifth of the UK's total emissions. Tackling these emissions is critical if the UK wants to successfully achieve the climate change goals.

The global momentum towards zero emission vehicles is unstoppable. Is the UK on course to be the fastest G7 nation to decarbonise cars and vans, leading the way to net zero? Moving millions of vehicles to zero emissions is an enormous challenge in the UK particularly with adapting and investing in infrastructure of charging points to meet the capacity of electric vehicles that will be on our roads. The growth in strategic technologies including domestic battery manufacture has started a new age of the electric vehicle supply chain with investment committed from the UK government of 4.4 bn.

MEMBERSHIP

In the first quarter of 2021 we welcomed 11 new members to the Aluminium Federation and 2 new knowledge partners.

CIRCULAR ECONOMY

As an integral part of the national circular economy community, we are pleased to support centres being launched by UK Research and Innovation's (UKRI) Interdisciplinary Circular Economy programme accepting two advisory board positions at Materials Processing Institute and Brunel University.

A handwritten signature in dark ink, appearing to read 'Tom Jones'.

Tom Jones
CEO
Aluminium Federation

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Cashmores Metals is a specialist metals processor, providing a bespoke service to customers across the world, servicing the needs of customers for almost 150 years. By providing a customised, in-house service for slit coil, cut-to-length sheet and precision blanks, plus first-stage manufacturing facilities for polishing, routing, drilling, tapping, bending, piercing, notching and embossing we are able to control and adapt our production to suit the ever developing requirements of our customers.

Cashmores has in-depth understanding, experience and expertise in the requirements of a wide range of industries and OEMs including Domestic Appliances, Building & Glazing Products, Electrical Goods, Automotive and Lighting where service, quality and continuity of supply are critical.

Cashmores customers operate in very competitive markets so demand the highest standards of product quality backed by exceptional service. Cashmores operates systems complying to ISO9001 and actively pursues constant business improvement and development of process and products.

Located in Walsall close to the M6, Cashmores make daily deliveries nationwide, according to customer requirements, using the company's own fleet of specialised vehicles and relationships with expert carriers.

 **Cashmores Metals Limited**
Upper Brook Street, Walsall
West Midlands WS2 9PD

 **T:** 01922 720930

 **E:** sales@cashmores.co.uk

 **W:** www.cashmores.com



HOUSE OF LORDS LUNCH

Aluminium Federation event

Tuesday 20 July 2021

Reception Drinks:

12.15pm

Lunch:

13.00pm

Venue:

Cholmondeley Room Terrace
House of Lords
Houses of Parliament
Parliament Square
London SW1A 0PW

(This is of course subject to lifting of COVID restrictions.)

The Aluminium Federation's annual Parliamentary Lunch is being held on Tuesday 20 July 2021 in the Cholmondeley Room Terrace at the House of Lords.

The event will be hosted by the Rt Hon the Lord Redesdale.

The purpose of this important event in ALFED's calendar is to raise and discuss issues relating to the UK's aluminium sector at the highest level within UK Government.

There will be three short presentations given during the lunch. The speakers will be from political backgrounds and industry leaders discussing current and future affairs. There is an opportunity after the presentations for a Question and Answer session.

Please note:

- The cost of the House of Lords Lunch is included in your ALFED membership. However, if you book a place and then subsequently cancel less than six days prior to the event, there will be a charge of £60.00 to cover the meal costs.
- Numbers are limited and the demand is usually very high, so we can only offer places on a 'first come first served' basis. Places are restricted to *one place per ALFED member company*.

**FOR FURTHER
INFORMATION OR
TO BOOK A PLACE:**

<https://bit.ly/3wuqpK9>



THE ALUMINIUM INDUSTRY EVENT OF THE YEAR: ALFED ANNUAL DINNER & ASA DUTCH PARTY AND BUSINESS BRIEFING - 25TH NOVEMBER 2021

ALFED Annual Dinner & ASA Dutch Party and Business Briefing is a highlight in the ALFED calendar – and this year more than ever we will appreciate the opportunity to reconnect once again with industry colleagues and friends. The last dinner in 2019 was attended by about 200 aluminium industry professionals offering an excellent networking opportunity.

Here's what some members said about the last dinner:

"I think the night went well and the view was spectacular!"

Helen Williams,
Real Alloy

"Just a quick 'Well done!' for hosting a wonderful event! The daytime speakers were excellent and the whole day was very well organised. The evening was brilliant."

Spencer Melia,
Aluminium Shapes

GUEST SPEAKER:

Our after-dinner speaker this year will be **Matt Dawson, MBE**. Matt's early career was spent as a successful international rugby player, playing for the Northampton Saints and London Wasps between 1991 and 2006. Matt toured three times with the British and Irish Lions as well as being part of England's 2003 Rugby World Cup winning side. Since retiring from Rugby, he has forged a successful career in television and media which continues to play an important role in his life whilst also making a successful transition into the corporate world.



VENUE:

The dinner will be held at the at the superb De Vere Tortworth Court. Situated just north of Bristol and easily accessible from the motorway, Tortworth Court is a historic hotel in stunning surroundings – a place where a centuries-old story meets an exceptionally modern experience.

BUSINESS BRIEFING:

A programme of industry speakers offering new insights on transformation, innovation and strategy in our current climate.

Business Briefing and lunch finishing mid-afternoon, followed by the Annual Dinner. This event is open to ALFED members and those who are also attending the dinner in the evening.

TIMINGS:

- 11.00 Arrival & Networking, Business Briefing & Lunch
- 18.30 Welcome Reception
- 19.00 Dinner

DRESS CODE:

Black tie

SPONSORSHIP OPPORTUNITIES:

This event provides a variety of sponsorship opportunities for you to

raise your company's profile within the aluminium industry. Sponsorship packages range from £500 to £5,000 to suit your budget: <https://bit.ly/3f7GkYV>

TICKETS:

Business Briefing: Free to attend, this event is open to ALFED members and those who are also attending the dinner in the evening. Reserve your tickets: <https://bit.ly/3bJJ5yG>

Dinner and B&B (single occupancy): £299+vat per person.

Please note: if you would like to reserve a double occupancy room (ie two persons), you will be required to reserve an additional dinner ticket at £190+vat: please email alfed@alfed.org.uk.

Reserve your tickets:
<https://bit.ly/3yr1073>

ENQUIRIES:

Telephone: 0330 236 2800 or email: alfed@alfed.org.uk

I hope you can join us at our Annual Dinner and Business Briefing on 25th November.

Tom Jones
Chief Executive Officer
Aluminium Federation

AMARI METALS LTD
Sponsor of this year's dinner



ALFED
ANNUAL DINNER
AND BUSINESS BRIEFING
2019 MEMORIES



ARCHITECTURAL AND METAL SYSTEMS

Architectural and Metal Systems (AMS) is Ireland's only independently owned manufacturer of extruded aluminium profiles. They specialise in aluminium extrusion, powder coated aluminium and sheet metal fabrication as well as providing many other services from their vast 250,000 sq. ft. facility. AMS also supplies a wide range of thermally efficient aluminium windows, door and other commercial systems to various industries globally. The company's business divisions include standard engineering products, architectural glazing systems, curtain walling architectural paint finishes and a bespoke aluminium design & extrusions service.

AMS offers many advantages to their customers. They can offer a complete, turnkey solution for all aluminium products and service requirements. This is thanks to their highly trained and skilled workforce as well as their two extrusion presses. They have a state-of-the-art powder coating, wood finish and fabrication facility that can bring products from conception to project delivery all under the one roof. AMS can offer consistency in service, quality, colour and complete traceability maintaining and ensuring our quality standards such as ISO 9001, 14001 and 50001. Because they have total control over all the processes from start to finish, they are able to offer their customers the best possible service to enable them to react to tight deadlines.

www.ams.ie



SPA ALUMINIUM

Formed in April 1971, Spa Aluminium are one of the UK's longest established specialist stockholders of aluminium extrusions & sheet. They hold a unique position as the country's only major stockist with 'on-site' anodising, polishing and fabrication facilities giving them an unrivalled knowledge and experience in the supply of finished products.

They specialise in stockholding premium quality 6063 anodising standard extrusion in their custom designed and temperature controlled warehouse. They have vast experience in the sourcing and handling of quality products and only use tried & tested suppliers who are able to understand and achieve their uncompromising quality requirements. In addition to over 300 standard extrusions,

a significant portion of their business is the supply of bespoke 'customer special' profiles. From the initial R&D stage to producing final CAD drawings, their technical sales department are adept at selecting the appropriate extruder for each client's individual requirements, managing the quotation, ordering and stock replenishment phases to ensure a smooth and hassle-free experience.

www.spaaluminium.com



BROMPTON BICYCLE

The unique Brompton folding bike was designed and built in London in 1975 by Andrew Ritchie in his flat in South Kensington opposite the Brompton Oratory. Still made in London today, Brompton is making over 45,000 bikes per year and is the UK's largest bike manufacturer.

80% of the componentry on their bikes is designed and made for Brompton, the work that goes into designing, researching and developing their products is clearly critical. Technical advances are being made all the time in bike manufacture and some are both genuinely innovative and useful. However, they have never used off-the-shelf products just for the sake of simplicity, preferring always to implement the best solution to any design or engineering challenge; more often than not, this has meant going down the more complex road of developing a unique solution in-house.

With so many unique parts and unique engineering solutions, they have had to produce over 500 different purpose-built press tools, moulds, braze jigs and assembly fixtures; all designed and developed in-house as well.

www.brompton.com

BROMPTON

ARGENTUM METAL MANAGEMENT

Argentum Metal Management offers a range of services for industrial clients across a variety of sectors within the aluminium industry from global corporations to SME companies looking to meet the challenges of the current economic environment.

Whether it is supply chain and risk management for large automotive

or aircraft manufacturers to metal procurement in privately owned first tier supplier. Argentum and its partners work closely with its clients to meet their needs and ultimately find solutions to meet their objectives.

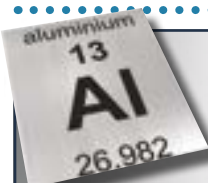
Argentum Metal Management offers a range of:

- services for industrial and financial clients that will assist them to meet their strategic objectives for their shareholders and stakeholders alike.
- trading options for industrial clients across a variety of sectors within the aluminium industry, whether its clients are looking for assistance in metal supply (ingots, billets, slabs, sheet etc) or assistance in recycling, closed loop, supply chain or scrap handling, Argentum with its extensive network of partners, will provide long term solutions.

Managing metal flows from input to finished products enables Argentum to step into areas from sourcing, conversion and recycling. As experts in the metal flow/supply chain Argentum offers optimisation opportunities to its global clients at any point in the whole value chain.

www.argentum.uk.com

Argentum



WHY JOIN THE ALUMINIUM FEDERATION

Whatever your company size or speciality within the industry, we help you access the technical expertise, market insight, business support and government influence you need to boost your competitiveness.

We offer different levels of membership based on your business size – so it's both affordable and valuable.

Contact us to discuss how **ALFED** membership can help your business.

T: 0330 236 2800

E: info@alfed.org.uk



INAL

INAL are a major UK supplier of aluminium extrusions and high end 5 axis machined components. They are a unique supplier of aluminium extrusions and machined components in the UK, a recognised leader in promoting material substitution and an educator in the use of aluminium extrusions across all platforms.

INAL supply, machine, fabricate, stock and supply aluminium extrusions. Their machining footprint can accommodate the largest extrusions produced globally and supplied locally within the UK.

Their extensive management team are drawn from people previously engaged at directorship level of aluminium machining companies, major aluminium stockholders and aluminium extrusion companies. They have the proven track record and expertise to suit any project.

www.inal.com



PLASTOMETREX

Plastometrex designs and develops novel mechanical testing systems that make mechanical testing simpler, faster and more versatile. Based on indentation testing, Plastometrex's technologies leverage advanced numerical modelling to convert indentation test data into stress-strain curves and metal strength parameters, in under 3 minutes. Formed in 2018 by a team of materials scientists from The University of Cambridge, Plastometrex launched its benchtop device in late 2020. The technology is already being used to support alloy development, additive manufacturing and failure analysis activities, amongst others.

www.plastometrex.com



WELCOME TO OUR NEW KNOWLEDGE PARTNERS

THE BARTLETT SCHOOL OF ARCHITECTURE

The Bartlett School of Architecture is part of The Bartlett, UCL's Faculty of the Built Environment. It was established in 1841 and is UCL's world-leading centre for education and research in architecture, with almost 1000 students enrolled across a rich portfolio of programmes.

Building on a rich history of rigour and ingenuity, the school has been voted the best school of architecture in the UK for seventeen consecutive years by the Architects' Journal AJ100 and is currently ranked second in the world in the QS World University Rankings by subject.

www.ucl.ac.uk/bartlett/architecture



ADVANCED ENGINEERING 2021



3 & 4 November 2021, NEC Birmingham

The UK's annual gathering of OEMs and engineering supply chain professionals will return in November 2021.

Make sure your brand is part of the reunion and showcase your solutions to the engineering minds behind tomorrow's projects.

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#FITShow21

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REAL ALLOY EXPANDS ITS VALUE CHAIN OF RECYCLING

Global market leader in third-party Aluminium recycling acquires RVA, a French specialist in salt slag recycling.

REAL ALLOY has announced that it has completed the acquisition of Récupération Valorisation Aluminium (RVA). The French specialist located in Les Islettes, 200 kilometers east of Paris, uses their proprietary technology to process Aluminium salt slag and reclaim its component minerals – aluminium, salt and aluminium oxide –, thereby eliminating waste generation from aluminum recycling.

"The technology and the know-how of RVA aligns perfectly with REAL ALLOY's growing focus on sustainability", says Terry Hogan, Chief Executive Officer and President of REAL ALLOY. "This acquisition provides enhanced capability to recycle salt slag and the opportunity to further enhance our existing salt slag processing plants in North America and Europe and is another step towards further reducing our ecological footprint and becoming a more sustainable and fully integrated company. We are seeing the world and especially the aluminium industry dramatically increase focus and efforts to improve sustainability. The addition of RVA further supports REAL ALLOY's mission to capture the inherent economic value of recycled Aluminium

by offering environmentally responsible processing solutions for our customers."

Besides REAL ALLOY, RVA serves various other well-established customers operating in the aluminium industry throughout Europe.

"We are happy to become part of this European corporate network and to help contribute to REAL ALLOY's sustainability ambition", says Jacques Kleinmann, Managing Director of RVA S.A. "Our slag recycling process is a closed-loop system returning valuable raw material and making minimal demands on the environment."

"We welcome our new colleagues at Les Islettes and we are keen to learn from each other", says Russell Barr, Executive Vice President and Managing Director Europe of REAL ALLOY. "This integration of slag treatment and the diversification



along the value chain of aluminium recycling is an enhancement of REAL ALLOY's business model and strengthens our distinctiveness as a sustainable recycler and supplier of aluminium. This acquisition will enrich both our business and our corporate culture."

The acquisition of RVA by REAL ALLOY was concluded on 10 May 2021.



OBITUARY – SEAN KELLY

It is with great sadness that we announce the death of Sean Kelly, founder of Richard Austin Alloys and one of the UK aluminium industries pioneers. Sean passed away at home on Sunday 9th May aged 75.

Richard Austin Alloys originated in Glasgow with Sean and his 2 business partners in 1981. Although both partners left the business over time, Richard Austin Alloys continued to grow organically into one of the largest independent aluminium and stainless steel stockholders across the UK.

Sean was larger than life character, greatly loved and admired by many, he was engaging with a rasping sense of humour!

Sean will be missed immensely within the industry by those who had the pleasure of knowing him.

We send our condolences to his family, friends and all his colleagues at RAA.

ADVANCED ENGINEERING IS BACK WITH A BANG IN 2021

The UK's largest annual gathering of engineering professionals, Advanced Engineering, will return to the NEC, Birmingham on November 3 and 4, 2021. Here, the UK's talented and vast engineering industry will come together again to begin generating business for 2022 and beyond.

Bringing together thousands of attendees from OEMs, tier 1 manufacturers, and supply chain partners, Advanced Engineering is the UK's largest annual advanced engineering and manufacturing event.

Advanced Engineering promotes supply chain business and technology transfer across any sector that involves high-value manufacturing, R & D and innovation.

Building on the success of the 2019 show, which attracted over 15,000 professionals from the manufacturing sector, Advanced

Engineering 2021 is the place to present exciting product launches that have been waiting to be revealed for over a year. The show focuses on all aspects of engineering, from materials and production, design, test and measurement and inspection across sectors including aerospace, automotive, composites, marine, medical and more.

This year, there will be an exciting new Space and Satellite zone, supported by ADS and UK Space, there will be innovative feature exhibits and headline topics in the Aero and Space and Satellite Forum. For the first time ever, Advanced Engineering will be co-located with its sister show, Lab Innovations. A long-awaited opportunity, this means that visitors can move between the two shows without even leaving the hall.

With pilot events successfully being carried out across the UK, Easyfairs, the organiser of Advanced Engineering, is currently working on making sure that the event will be executed safely and in line with any recommended requirements in place at the time.

Advanced Engineering is set to bring together engineering professionals from all sectors and industries. The show offers a diverse range of exhibitors the opportunity to showcase their expertise, and offers engineering professionals the opportunity to source new products and solutions, as well as hear from a wide range of speakers in the 4 free-to-attend open forums.

Advanced Engineering runs a series of online events throughout the year, AE Talks, giving exhibitors and visitors the chance to stay connected, learn from key industry leaders, and stay up to date with the newest developments. For those interested in attending, regular updates will be shared on the Advanced Engineering website: www.advancedengineeringuk.com

We look forward to having you at the show in November.

For more details contact:
Aleiya Lonsdale, Head of Marketing,
aleiya.lonsdale@easyfairs.com
+44 020 3196 4375.

- ▶ Manufacturers of modern, stylish, secure and thermally efficient aluminium window & door systems
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- ▶ Stylish single/twin colour and wood effect "Decoral"
- ▶ Manufacturing in Ireland for 30 years, AMS has products utilised in projects nationally and internationally
- ▶ AMS provide an in-house design service
- ▶ Excellent customer service and a professional approach



Wallingstown, Little Island, Cork, Ireland

T: +353 21 4705100

E: info@ams.ie

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Operating for over 30 years, Architectural & Metal Systems specialise in aluminium extrusion, powder coating, fabrication, and sheet metal services.

AMS is Ireland's only aluminium extrusion company, we supply a wide range of quality certified thermally efficient window and door systems as well as a range of high performance curtain wall systems. We also supply specialist bespoke extrusions to various industries globally.

Founded in 1990, AMS has grown exponentially and is located in Little Island, Cork. Our facilities have grown from 86,000 sq. ft. in 2001 to over 300,000 sq. ft today. Having all our services in-house and under one roof, means we can offer consistency in service, quality, colour and complete traceability.

Our state-of-the-art extrusion facilities have the capacity to extrude over 16,000 tonnes per year, and are complimented by our vertical and horizontal paint lines. We also offer a variety of wood finishes through our 'decoral' sublimation plant.

The installation of our new fully automated anodising plant will allow us to anodise to architectural standards and will give us full control of all processes that we offer to customers. AMS are extremely proud of our ISO and quality standards and place a special emphasis on environmental considerations to achieve a high level of performance in sustainability. We offer aluminium that is highly sustainable which not only reduces our carbon footprint but has positive implications for LEED and BREEAM certified projects. We have the experience, technology and design capability to deliver quality aluminium systems that meet and exceed the design, environmental, thermal and aesthetic needs of our clients.



BENEFITS OF WELDING STRUCTURAL ALUMINUM WITH ADJUSTABLE MODE BEAM FIBER LASERS

Lasers with adjustable mode beams allow high-speed welding of structural aluminum.

By Michael Wiener*, Eric Stiles, Garrett Larrimore and Alexei Markevitch

*Corresponding author, mwiener@ipgphotonics.com

Structural aluminum (Al) provides high mechanical strength at less than a third of the weight of steel driving increased adoption across numerous industries including construction, aerospace and automotive.

The high thermal conductivity of Al creates challenges in welding quality and productivity. Rapid heat dissipation results in quick solidification of molten material, leading to cracking and porosity due to trapped plasma and shield gas bubbles, weakening the weld strength.

Laser welding, with its precise control over temporal and spatial energy deposition, overcomes drawbacks of non-laser methods. High local energy density reduces heat affected zone, enabling welding at higher speeds with great consistency and quality. Laser welding is commonly used for joining Al sheet metal or thin walled machined components, where minimizing excessive heat input is critical.

While laser welding overcomes many problems of non-laser welding, the balance between speed and quality is often achieved in a narrow window of process parameters at moderate welding speeds. Traditional high-speed Al laser welding can create keyhole instability resulting in underfill due to material loss from spatter ejection, leading to excessive surface roughness/notches, see Figure 1.

To replace material lost from spatter, filler wire with tactile tracking or remote welding systems with active seam tracking is used. The high cost and complexity of specialized welding heads significantly increase the overall process cost.

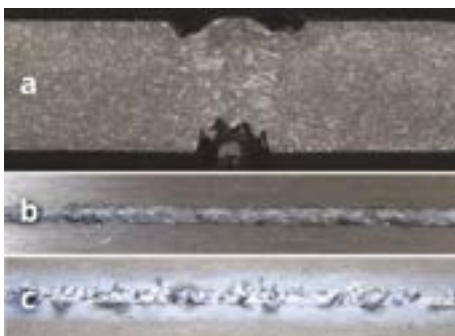


Figure 1
High speed welding of 1.5 mm thick 5182 Al at 5m/min with a traditional laser without filler wire and root shielding gas: (a) butt joint cross section, (b) top view, (c) bottom view.

Additionally, argon shielding gas is usually provided on both sides of the weld to increase the surface tension, resulting in smoother weld surfaces. Adding shielding gas from the top of the weld is standard, but the need to provide root shielding gas further increases processing costs.

To overcome these problems, fiber lasers with adjustable mode beams (AMB) are an effective tool. AMB laser beam profiles feature a coaxial ring around a standard inner core beam with independent and on-the-fly power level adjustment, see Figure 2. The additional ring energy increases the opening of the keyhole and provides extra energy at the top of the weld. A larger keyhole opening reduces the pressure in the keyhole and suppresses spatter, reducing underfill caused by material loss. The extra energy at the top of the weld increases the active time of the melt pool, giving it more time to settle before solidification, reducing defects such as porosity and surface cracking, resulting in improved surface appearance and mechanical strength of the joint.

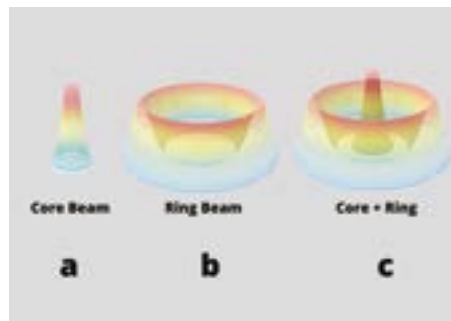


Figure 2
Combination of (a) small spot high intensity bright central core and (b) larger ring beam results in adjustable mode beam (c). The laser power in the core and ring can be controlled independently and dynamically to create a variety of beam profiles to optimize welding speed and quality.

Figure 3 illustrates high-speed AMB welding of 5182 Al without filler wire and root shielding gas, with greatly reduced material loss at the top and bottom of the weld, resulting in high-strength welds with aesthetic finishes. Similar results have been obtained with butt welding of 3.5 mm thick 6111 Al without filler wire, showing no cracking of the centerline and very low internal micro-cracking and porosity, with high weld strength.

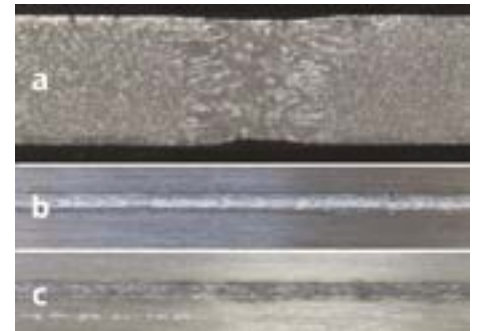


Figure 3
High speed laser welding of 1.5 mm thick 5182 Al at 5m/min with an AMB laser with no filler wire and no root shield gas: (a) butt joint cross section, (b) top view (c) bottom view.

While these examples show that welding of structural Al can be done without filler wire, in cases of different weld geometries and welding conditions filler may still be required. However, general AMB benefits such as faster welding speed and improved welding quality with increased window of process parameters apply to many other types of joints including butt, corner, lap, fillet and overlap joints, as well as creating hermetic seals when welding Al battery cases.

More manufacturers are turning to using AMB fiber lasers for structural Al welding. AMB lasers are easy to adapt in place of other laser or non-laser welding processes, enabling high-speed structural Al welding with increased window of process parameters, producing excellent weld strength and appearance, minimizing the need for expensive post processing and improving overall productivity.

For more information please contact:
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M: +44 (0) 7809 735 402
dgoodwin@ipgphotonics.com



WELDER TRAINING FIELD STUDY: SIMULATORS IMPROVE QUALITY AND REDUCE COSTS

No noise, no smoke, no heat, no material input – Fronius Virtual Welding offers a totally safe and sustainable framework for training new welders. Similar to a flight simulator, 3D glasses and amazing graphics enable a realistic welding experience. The result is high-quality welder training that also saves on costs.

By Philipp Schlor, Product Manager Virtual Welding, Fronius International GmbH

COMPREHENSIVE TRAINING CONCEPT: THEORY AND PRACTICE

With Virtual Welding, Fronius has developed a sophisticated training concept for providing theoretical knowledge about MIG/MAG, TIG, MMA welding and more, with a testing system to assess learning progress. A ranking list encourages trainees to enter into some friendly competition with one another. The practical welding tasks in the Fronius Virtual Welding curriculum are based on training by the International Institute of Welding and therefore meet the international standard for training welders.

GHOST: THE TRAINER ALWAYS AT YOUR SIDE

To master their manual skills, trainees first practise with a virtual instructor known as the Ghost. Step by step, it shows the right welding speed, distance and tilt angle of the welding torch relative to the workpiece, giving the trainee immediate feedback. The task gradually increases in difficulty until finally welding is completed without the Ghost in a realistic simulation. The Virtual Welding system records the welding operations, making it possible to play them back at a later date and analyse them together with a real trainer.

This combination of guided practical exercises and theoretical units enables trainees to complete much of their training independently using the welding simulator. They acquire basic knowledge and fundamental manual skills before moving on to the real welding system.

This enables training centres to improve the quality of their training while also reducing costs.

FIELD STUDY: FOHNSDORF TRAINING CENTRE

The Fohnsdorf Training Centre is one of the most modern and innovative professional training establishments in Austria. The Fohnsdorf Training Centre has been using Virtual Welding in its metal engineering workshops since 2010. It now carries out 30 percent of its practical welder training by means of simulation, making simulators a mainstay of the training curriculum.

A field study was commissioned to research the impact of these simulators on training efficiency. It analysed data from:

- 13 students
- 2 weeks of training comprising 30% Virtual Welding and 70% real welding
- Fillet welds (135 P FW FM1 S PB ml) and pipe fillet welds (135 T FW FM1 S PB sl), which are welded in real and virtual welding operations

The metal, gas, welding wire and energy consumption of the 1,577 real weld seams were analysed to determine the savings potential of training with Virtual Welding. This was then compared with the data from 1,733 virtual weld seams.

BETTER QUALITY OF TRAINING: 23% MORE PRACTICE TIME

The Fohnsdorf Training Centre boosts welding time by 23 percent with Virtual

Welding. This makes it possible to produce three times as many seams as can be produced in the welding booth in the same period of time. This is mainly because virtual welding eliminates time-consuming preparation of the test sheets as well as cooling of the sheets and cleaning of the weld seams. With a simulated welding seam taking just one click, there is more time for mastering and practising the required manual skills.

However, it is not just practice time that receives a boost: "We believe that Virtual Welding makes a significant contribution towards improving training quality. The Ghost provides every student with one-on-one tuition and immediate visual feedback, something that a real-life trainer is simply unable to do," says Hannes Krempel, a trainer in welding technology and transport at the Fohnsdorf Training Centre.

COST SAVINGS: MATERIAL COSTS REDUCED BY €230

In addition to the quality of the training, the welding simulator also increases cost effectiveness; savings on consumables such as gas, wire and sheets make the training significantly cheaper. "In total, we save around 230 euros per participant on material costs – despite the longer arc time," says Krempel. Virtual welder training ensures maximum effectiveness using minimal resources.



• Virtual Welding combines state-of-the-art consumer electronics technology with welder training.

• Fronius uses 3D glasses that feature a particularly high resolution and level of sharpness as well as a large field of vision.

• The Ghost is the virtual trainer that shows the right welding speed, distance and tilt of the welding torch and filler metal relative to the workpiece using markings (shown in green in the image).

• Virtual Welding is available in two versions (StandUp terminal or Mobile Case) and more than 20 languages. It can be used to master manual MIG/MAG, TIG, manual metal arc welding, MIG/MAG Robotics.

TRANSFORMING FOUNDATION INDUSTRIES NETWORK+: SUPPORTING FOUNDATION INDUSTRIES ON THE PATH TO NET ZERO

Transforming Foundation Industries (TFI) Network+, funded by the Engineering and Physical Sciences Research Council, creates opportunities for collaboration and knowledge transfer between industry and academia in the Foundation Industries, supporting the drive to net-zero 2050.

Led by the University of Sheffield, in collaboration with the Universities of Leeds, Swansea and Manchester, the Network brings together expertise from across the sectors to support sustainability and productivity within Foundation Industries. The UK foundation industries are facing profound change and instability caused by Brexit, Covid-19 and environmental policies. The UK Government net-zero 2050 target heavily impacts foundation industries, with long-standing working methods requiring transformation to achieve sustainability. Recent studies by UKRI have analysed innovation readiness within the foundation industries, finding over a third of businesses had implemented no new processes within the last three years. Within the metals sector, an estimated 98% of businesses are small to medium sized enterprises, with these businesses often requiring additional support and funding for new technology. In particular, the metals sector faces increased

global competition and uncertain export regulations, as well as reduced output from Covid-19. However, there are opportunities. Studies by the Materials Processing Institute demonstrate that the metals industry may reap the benefits of decarbonisation, creating an estimated 80,000 jobs over 30 years while cutting carbon emissions by two-thirds.

The TFI Network+ officially launched in February 2021 with a successful online event attended by over 200 stakeholders. Since then, the Network has focused on identifying opportunities for collaboration, community building, organising events and launching funding calls to engage across all sectors. Most recently, the management committee reviewed existing sector roadmaps in their inaugural workshop to establish a generic platform that identifies common problems, barriers and technological solutions across the foundation industries. The workshop brought together over 70 stakeholders from across each of the six sectors, with its findings summarised at www.tfinetworkplus.org which will serve as a blueprint for informing the Network's future activities.

As industries across the UK look to become more competitive, productive and sustainable, each sector is facing challenges from external, unpredictable forces. The Network aims to foster a supportive community, with opportunities for collaboration on innovative projects, undertake research, learn about new technologies and share views and ideas on a range of topics. Become a member today and join the community at www.tfinetworkplus.org.

Contact details: tfinetworkplus@sheffield.ac.uk



HEALTH & SAFETY

ALFED HEALTH, SAFETY & ENVIRONMENT CONFERENCE

TUESDAY 5 OCTOBER 2021
WOLVERHAMPTON

A free to attend one-day health, safety & environment conference with presentations on current issues and upcoming legislation.

It is anticipated that this event will attract around 100 delegates representing most sectors of the UK aluminium industry and is an excellent networking opportunity for quality, health, safety & environment professionals and anyone interested in the H, S & E issues.

PROGRAMME

09:15 Registration & Refreshments
10:00 Welcome
10:15 HSE Update - Martin Giles, HSE
10:45 Construction Design Management - Alastair Mitchell, HSE

11:15 Coffee Break and Networking
11:45 Alcohol & Drug Abuse in the Workplace - Sarah Taylor-Robinson, Go2Wellbeing
12:15 Overview of National Resources Wales regulation and how Wales differs slightly from the rest of the UK - Jeremy Walters, National Resources Wales
12:45 Lunch
13:45 **Lisa Ramos, Inspirational Speaker**
Lisa Ramos was involved in a forklift accident at work in 2006 and as a result of this, is now an above knee amputee. Lisa and her husband Dave offer a unique alternative to raising awareness of health & safety issues within the workplace, with their frank and honest account of her rehabilitation, and the long-term struggles that are part and parcel of adjusting to life, as a disabled person.
14:45 Coffee Break and Networking
15:15 UK Best Available Techniques (BAT) - Oluwafemi Akinremi, DEFRA



15:35 Speaker tbc
15:55 Speaker tbc
16:15 Closing Comments
16:30 End of Event

REGISTER YOUR PLACE:

<https://bit.ly/3v9T0nA>

RESERVE YOUR EXHIBITION SPACE:

There is an opportunity for your company to secure an exhibition space enabling your company to promote your products and to network with companies. There will be plenty of opportunities during the breaks for delegates to view the exhibits and discuss your products.

- Space approx. 2m wide
- Table and 2 chairs, with space behind it for a pull-up banner(s)
- All refreshments including lunch for your representative(s)

Cost: £325.00 + vat per exhibition space

Reserve your space: Please email Margaret Lane at ALFED: mlane@alfed.org.uk

STREAMLINED ENERGY AND CARBON REPORTING DEADLINE IS APPROACHING

With the disruption caused by COVID-19, it is easy for businesses to overlook compliance issues – such as the Streamlined Energy and Carbon Reporting (SECR) deadline.

The SECR deadline is approaching quickly. Does your business still need to comply?

If your business meets 2 of the following criteria in the financial year being reported on, you will need to comply.

- More than 250 employees
- £36m or more turnover
- Balance sheet total of more than £18m

You will need to report on scope 3 emissions, financial, operational and equity share boundary. If your company consists of multiple companies, you will need to investigate to ensure you are reporting entity provides the correct consumption data for that entity.

One of the main issues facing customer who need to comply is the transport data required for SECR. you will also need to ensure you have accurate data especially for company and private cars and are required to provide an intensity metric.

Energy Management Ltd vast experience means we can assist with all the SECR requirement and assisting with data collection. We will provide you with a data collection template and guidance notes. All businesses are required to provide commentary on what they did in the previous year and what they plan to do in the next year.

Through experience we have seen businesses required to report even if they are not obliged, due to being part of a supply chain which does. Understanding your organisations publishing requirements is key as it could highlight opportunities for improvement in data collection. SECR can be more than a 'paperwork' exercise and can lead to making improvements each year.

In our experience customers of ours have found the Energy Management portal, EM-Powered, to be an invaluable resource in collating and categorising energy consumption data. EM-Powered is a live reporting data tool three-way communication tool that brings together ourselves, clients and suppliers to ensure the smoothest and most accurate energy reporting process possible and provides you with 24-7 access to your energy data.

Please get in touch with Ian Scattergood at Energy Management to find out how we can help and advise you with the process.

T: 01225 867722

E: is@energymanagementltd.com



26th


**World Aluminium
Conference Series 2021**

Stay updated on the latest developments in the market. Registration for the full series includes:

- The flagship World Aluminium Virtual Conference 2021 on 15-16 June (virtual)
- World Aluminium North America date TBC (hybrid*- live and virtual)
- ALUMINIUM 2021 conference on 30 September on the last day of the ALUMINIUM World Fair in Düsseldorf. (hybrid*- live and virtual)
- Content-led webinars (virtual)
- A 25% exclusive discount for you or a colleague to attend the training workshops (virtual)

*These events will be both live and virtual. It is your choice if you wish to attend live or virtually. Please note: events planned to be live may change to fully virtual, depending on the situation at the time.

REGISTER AT: www.worldaluminiumconference.com



EXP 2021



Where: Virtual Online

When: 29-30 June 2021
Tuesday to Wednesday

To participate email us at events@alcircle.com

BECOMING A FULLY CIRCULAR AND CARBON NEUTRAL BUSINESS BY 2050

Novelis, the leading producer of flat rolled aluminium products and the largest recycler of aluminium in the world, takes the next step in actively shaping a sustainable world. Recently having announced new targets, the company proceeds on its ambitious sustainability journey with the goal of achieving net carbon neutrality by 2050 or sooner and reduce its carbon footprint by 30 percent by 2026.

The commitment to become a fully circular business, with recycling and closed-loop systems as key drivers, goes hand in hand with the pledge to process aluminium in a sustainable manner and ultimately recycle it into new high-quality products. Recently being awarded the Performance Standard as well as the Chain of Custody Certification by the Aluminium Stewardship Initiative (ASI) for a further seven European plants, underlines this strong ambition. Both Standards certify that not only the plants and their practices but also the physical metal that is produced and processed through the value chain follow environmental, social and governance principles and criteria.

This is an important step on Novelis' roadmap to be the world's leading provider of low-carbon, sustainable aluminium solutions that advance not only its business, but also industry and society toward the benefits of a circular economy – bringing the aluminium back into the loop again and again to manufacture new high-quality products, from beverage cans to automobiles. Aluminium's unique properties as an infinitely recyclable material hold promise for transforming today's everyday life and achieving a more sustainable future. Novelis addresses the challenges brought on by climate change by preserving the value of aluminium

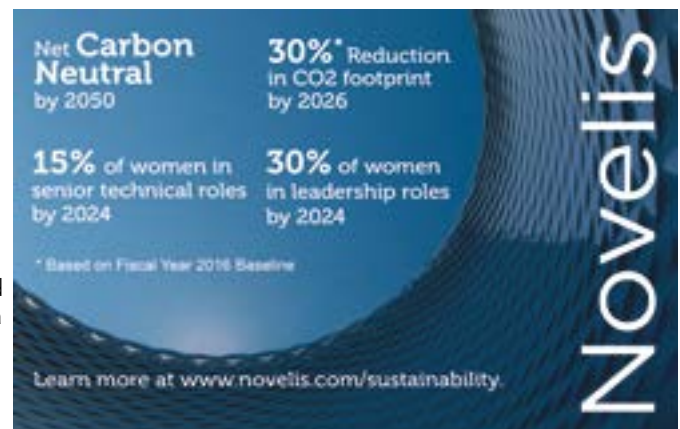
alloys to maximize the environmental benefits of increased recycled content across the entire product portfolio.

Enhancing low carbon, sustainable aluminium solutions also supports customers to achieve their own sustainability goals, reduce emissions and preserve precious natural resources. The most effective way to reduce the carbon footprint of the aluminium used in final products is to maximize the recyclability and recycled content. Novelis is the largest, most technologically advanced aluminium recycler in the world with 59% recycled inputs across products, a 96% increase in recycled content* and 700 million USD invested in recycling over the last 10 years.

Building on the successes of the past and reaching these sustainability goals will require continuous innovation on processes, products and partnerships, a close collaboration with customers, suppliers and policymakers as well as a healthy and sustainable workplace within Novelis. The company further commits to

creating a more inclusive and diverse workforce through a new set of targets that increase the number of women in senior leadership and technical roles to foster the next generation of female scientists and engineers. Novelis has established a global Diversity & Inclusion board as well as supporting councils in each of its four regions. The company will also continue assisting its Employee Resource Groups to help create a more inclusive environment where everyone has a sense of belonging and different backgrounds and perspectives are embraced and valued.

**Baseline averages of Fiscal Years 2007-2009*



GREENER ALUMINIUM ONLINE SUMMIT

As the aluminium industry strives for a more sustainable future, the Greener Aluminium Online Summit will investigate how far along we really are on the path to decarbonisation and if we're going in the right direction.



Bringing together aluminium manufacturers and environmental solutions providers, the Summit will present the main issues, investments, technologies, and best practice examples from across the supply chain.

We want sustainability to be more than just a buzzword, so we are inviting a range of experts to give their opinions and advice on how best to achieve this huge decarbonisation task.

Join the Summit to hear more on topics including:

- The reliability of renewable energies
- Eco-friendly manufacturing
- The LME's Sustainability Strategy
- The work of the Aluminium Stewardship Initiative
- Sustainability targets – achievable or out of reach?
- Outlining guidelines for decarbonisation

When: 2nd June - 3rd June 2021

Find out more: www.aluminiumtoday.com/greener-aluminium



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Euro PM2021 International Powder Metallurgy Congress & Exhibition

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ONLINE EVENT

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VIRTUAL CONGRESS & EXHIBITION

UNDERSTANDING EMPLOYEES' RIGHTS TO APPEAL

R E D U N D A N C Y

Through pandemic developments, many employers in the aluminium industry faced difficult decisions to ensure efficient business operations – including making staff redundant.

To avoid risk of an unfair dismissal claim in an employment tribunal, a redundancy process must be fair in all areas, from initial selection to making staff redundant.

One of the main areas of confusion for employers is appeals. Do employees have a right to appeal? Is there a process you have to follow?

Croner, ALFED's trusted HR partner, look at employees' rights to an appeal, the process to follow, and what happens when offering an appeal process.

For free and instant advice in this area or for wider HR matters ALFED members can call **0844 561 8133** (you need ALFED scheme number, please contact Margaret Lane for further information: mlane@alfed.org.uk).

DO YOU NEED TO OFFER AN APPEAL IN REDUNDANCY SITUATIONS?

There is no legal obligation to offer an appeal against dismissal in a redundancy situation.

The Acas code of conduct recommends that in cases of disciplinary and performance, an appeal process should be in place.

There is no official employment law status on the right to appeal redundancy decision. However, it's good practice to do so.

SHOULD YOU HAVE A REDUNDANCY APPEAL PROCESS?

We believe that you should, as if you have followed a fair and thorough procedure, the outcome will be the same.

However, if you don't offer those made redundant the right to appeal, you open your process up to scrutiny.

There is precedent for unfair dismissal because of a lack of appeals process. This was the case with *Robinson v Ulster Carpet Mills*. The tribunal saw that the redundancy was unfair because of a lack of appeals process.

This is a Northern Irish law case but the principle has been approved in several cases since then.

Offering an appeal also allows you to fix any procedural flaws that happened before the decision. An appeal process gives the employee a fair chance to raise any issues.

THE DOWNSIDES TO APPEALS PROCESSES

There is one major flaw with appeals. If the appeal is successful, you are left with an awkward situation.

You likely will have gone through a scoring process and found that this candidate is the most suitable for redundancy. However, if they win the appeal you still need to make someone redundant.

This means you need to go back to the selection process and choose someone who scored higher than this person for redundancy.

Understandably, the employee will feel hard done by and will be more likely to appeal the decision as well.

EMPLOYEE RIGHTS TO APPEAL REDUNDANCY

An employee can appeal against being made redundant if they believe their selection was unfair or that you did not follow a fair redundancy process.

They may appeal for a variety of reasons, including allegations of discrimination, or allegations that the redundancy is unfair.

You should check your internal redundancy policies to ensure compliance. Your policy may outline an appeals process, and if you do not follow your process properly, it will probably be an unfair dismissal.

WHO SHOULD HANDLE APPEALS?

An independent person who did not take part in the original redundancy decision should handle redundancy appeals.

If this is not possible, then you should consider hiring an external HR consultant to undertake the appeal. Once the appeal has been decided, you will need to send a follow-up letter confirming the outcome of the employee's appeal.

This outcome may involve reinstatement or may uphold the original decision.

EXPERT SUPPORT ON REDUNDANCY WITH CRONER

Speak to a specialist today on **0844 561 8133**, (you need ALFED scheme number, please contact Margaret Lane for further information: mlane@alfed.org.uk).





ALFED BACKS INNOVATIVE BLOODHOUND PROJECT

Britain's trade association for the aluminium industry has extended its long-standing partnership with the Bloodhound Education programme.

Halesowen-based ALFED has given a five-figure sum to sponsor an innovative project for pupils aged between 11 and 14, enabling them to link design skills and scientific knowledge learned in their classroom to potential future careers.

The original Bloodhound was a ground-to-air missile designed to protect the UK from nuclear attack during the Cold War, by bringing down incoming bombers at long range.

The remit of the programme bearing its name is equally ambitious, to highlight the remarkable innovations of British industry to the next generation and stimulate talented youngsters into entering careers in engineering.

"Their 'You can change the world' project instils awareness about issues which will impact the environment throughout their lives, such as sustainable development and waste management," says ALFED's training and education manager, Kathy Romback.

"They also learn about manufacturing industry, with a particular focus on materials which are both sustainable and easily recycled, and aluminium is of course very much a material of the moment.

"The project content was designed to open their eyes and their minds, so they'll be seeing how inventive engineers work in poverty-stricken areas of rural Africa one day, and then examining the advanced technologies behind the Bloodhound supercar on another."

All Bloodhound Education's projects suit both traditional educational environments and virtual 'classrooms', so they haven't been paused during lockdowns.

"I remember when they launched 'Desert Wheels' in 2018, so teams of youngsters could design and build wheels for model cars using recycled aluminium cans and then test them on simulated desert tracks, and it was an immediate success," recalls Kathy.

"Obviously, no-one knew what was ahead, but because that programme was created in such a flexible format, it's been perfect for remote working, and there are now almost 10,000 pupils engaging with



Desert Wheels either back at school or from their homes.

"The use of aluminium is a central theme for many of Bloodhound's STEM workshops, and we also showcase a real Bloodhound wheel prototype in ALFED's education centre to make the connection tangible."





ALFED TECHNICAL TRAINING COURSES

INTRODUCTION TO ALUMINIUM – INTRODUCTORY/ BEGINNER LEVEL

These webinars introduce and provide a broad basic knowledge of aluminium and its industry for support staff, administration, accounts, purchasing, for those who are progressing their careers into sales, marketing, manufacturing or quality roles and for new entrants into the aluminium industry assuming no prior knowledge of aluminium or understanding of manufacturing

• Corrosion and Protection of Aluminium – Module 9

- Explaining what corrosion is and its various mechanisms
- Researches alternative coating and protection methods
- Ending with eye catching examples of coated architecture

When: 9 June

• Casting Technologies – Module 10

More correctly liquid aluminium engineering, this module compliments both Modules 3, 7 and 8 by exploring how castings offer alternative manufacturing processes. This module outlines the various techniques and their application to specific product applications.

When: 24 June



• Introduction to Aluminium – Module 1

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

- Where aluminium comes from
- The processes used in industry
- Properties and applications of this material that has shaped our world
- Identifies each of the holistic properties of aluminium
- The basis of global demand for aluminium

When: 16 September

• Production of Aluminium & Global Demand – Module 2

- Sources of aluminium, how it is refined and produced
- Growth relationship with the availability of electricity
- Low carbon recyclability of aluminium
- What differentiates it from other materials
- Understanding how supply is matching demand

When: 30 September

• Wrought Aluminium & Applications – Module 3

- How aluminium alloys group specifications were developed
- Focusing on the properties of each alloy specification group, explains their uses and illustrates applications
- Concluding by dispelling myths on aluminium, fire and health demand

When: 14 October

• Heat Treatment of Aluminium – Module 4

- The difference between non-heat treatable alloys and heat treatable alloys
- How non heat treatable alloys are strain hardened and heat treatable alloys age hardened
- Understanding this module completes the understanding required to select correct alloys for applications

When: 28 October

• Elastic & Plastic Behaviour of Metals – Module 5

- Understanding how metals behave under load, and the applicability of the significant characteristics to product design
- How characteristics are determined/proved by tensile and/or hardness testing

When: 11 November

• Production of Wrought Aluminium – Module 6

- How plate, slab, shate, sheet and foil are produced and some of their innovative applications
- Introduction to product defects

When: 24 November

• Extrusion – Module 7

The super-plasticity of aluminium at moderate temperatures sets aluminium apart from all other metals in its ability to be extruded. This module outlines:

- The extrusion process
- Exploring its potentials, product designs and applications
- A study of extrusion introduced defects

When: 9 December

The format of these modules is live, tutor-led interactive webinar and the approx. length of each is 30-45 minutes.

Cost: ALFED members offer 2 for 1:
£33.33+vat/2 persons
Non members: £33.33 +vat/person

For more information or to book a place please contact ALFED training and education manager, Kathy Romback.
Email: kromback@alfed.org.uk.
Tel: 07899 924 315.



ALUMINIUM FOR ENGINEERS – ADVANCED LEVEL

An intensive course that creates the foundation and builds up knowledge from basic introduction to metals to the wide application of aluminium. The 'Aluminium for Engineers' syllabus covers metallurgy, specification, heat treatment, wrought processing, joining, testing, corrosion, coating and more.

All participants get a complimentary copy of the Aluminium Federation's book 'The Properties of Aluminium and its Alloys'.

This course is aimed at metallurgists, designers, manufacturing engineers and companies transitioning into aluminium.

This live, tutor-led interactive workshop will be delivered over four mornings via our online platform.

When: 15, 16, 17 & 18 November 2021:
9.30-12.30

Cost: ALFED members £395+vat/person
Non members £495+vat/person

WORLD OF ALUMINIUM – INTERMEDIATE LEVEL

The World of Aluminium is an intermediate level technical course and is specifically designed for production engineers, process and quality technicians, stockholders, customer facing sales/marketing persons and material/product purchasing individuals. This course is aimed at individuals who require a solid basic understanding to confidently engage with the aluminium industry and its products.

The course creates a solid basic understanding of aluminium, aluminium metallurgy, heat treatment and metal forming processes. It assumes no prior knowledge of metallurgy, and is specifically tailored to the background, industry sector and jobs of the delegates.

Technical elements are balanced with insights into the history of aluminium, its growth as the strategic metal of society, its sustainability properties and illustration of products, to create a holistic broad rounded knowledge.

This live, tutor-led interactive workshop will be delivered over two consecutive mornings via our zoom platform.

When: 28 & 29 September 2021: 9.30-12.30

Cost: ALFED members £199+vat/person
Non members £299+vat/person

WELDING OF ALUMINIUM COURSE – INTRODUCTORY/BEGINNER LEVEL

The course is designed for both those with minimum knowledge of welding and those transitioning into aluminium from steel. The course is also suitable for designers, engineers and technicians.

Elements covered include:

- Aluminium properties applicable to welding
- Theory of welding
- Aluminium welding metallurgy
- Aluminium alloys weldability and applications
- Consideration of heat & energy
- Thermal welding effects
- Temperature measurement
- Welding defects
- Non-destructive testing
- Welding health issues
- Introduction to all welding techniques and their applicability Fusion, MIG, TIG, CMT, Forge, Spot Resistance Pressure, Laser, Diffusion and Magnetic Impulse
- Welding effects on heat treated aluminium

This live, tutor-led interactive workshop will be delivered over two consecutive mornings via our online platform.

When: 7 & 8 July: 9.00 – 12.30

Cost: ALFED members £199+vat/person
Non-members £299 +vat/person

ALUMINIUM CASTING AND PROCESSING – INTERMEDIATE LEVEL

The Aluminium Casting and Processing course is designed for designers, technicians, quality personal, production supervisors/ managers working in the aluminium casting industry or looking to transit from steel into aluminium.

The course assumes no prior knowledge so will establish a basic understanding of aluminium, metallurgy, testing casting technologies and introduces many new technologies.

The course agenda

- Theory of metals and basic metallurgy
- Solidification of metals and alloys
- Elastic and plastic behaviour of metals
- Tensile testing
- Evolution of aluminium and casting
- Aluminium strategic metal for society
- Primary aluminium production
- Cast aluminium specifications
- Global growth of aluminium
- Infinitely recyclable aluminium
- Aluminium alloying
- Liquid metal engineering
- Casting macrostructures
- Casting defects
- Inclusions
- Degassing and fluxes
- Inoculants and grain refinement
- Casting technologies
- Aluminium temperature measurement
- Burner technology developments
- Chemical analysis
- Heat treatment of aluminium
- Non destructive testing
- Aluminium and fire

When: 14 & 15 September 2021:
9.00 – 12.30

Cost: ALFED members £199+vat/person
Non-members £299 +vat/person

For more information or to book a place please contact ALFED training and education manager, Kathy Romback.
Email: kromback@alfed.org.uk.
Tel: 07899 924 315.

More training opportunities are available on our website: bit.ly/TrainWithALFED



TRAINING ACADEMY



MANAGEMENT COURSES

ONLINE ILM QUALIFICATIONS

The ALFED management and leadership programmes are delivered by trained professionals who have proven expertise in their field. They are delivered through a range of workshops that encourage learning and participation.

Our programmes help all managers of all levels to deliver success.

The Institute of Leadership and Management (ILM) qualifications offer a mix of theory, knowledge and practical application. The qualification encourages learners to draw on their own experiences, gaining new skills and to adopt best practice moving forward.

MIDDLE MANAGEMENT FOR PEAK PERFORMANCE IN A COMPLEX WORLD – ILM LEVEL 5

Introduction to complexity in management

Who is it for: The ILM level 5 award is suitable for experienced managers with significant leadership responsibility looking to enhance performance or prepare for senior management responsibilities.

What will I learn:

- **Module: Managing yourself**
 - Introduction to neuroscience
 - Emotional Intelligence in management
 - Refining your management style
 - Business ethics
 - Motivation and goal setting

When: 15 & 16 June

Duration: 9.30-12.30

Cost: ALFED members £495+vat/person
Non members £595+vat/person

- **Module: Managing managers**
 - Business skills
 - Introduction to economics and sustainability
 - Introduction to organisational behaviours and analysis
 - Decision making



LEADERSHIP

- ✓ Inspire People
- ✓ Empower People
- ✓ Shared Vision
- ✓ Lead Change

- Change management
- Team management
- Managing managers to manage
- Advanced finance for non-financial managers
- Communication skills
- Dealing with management information
- Delegation

When: 6 & 7 July

Duration: 9.30-12.30

Cost: ALFED members £495+vat/person
Non members £595+vat/person

- **Module: Managing within the organisation**
 - Business process re-engineering for organisational transformation
 - Managing upwards
 - Strategic management
 - Sales, HR, marketing and practice management
 - Operations management
 - Project management

When: 7 & 8 September

Duration: 9.30-12.30

Cost: ALFED members £495+vat/person
Non members £595+vat/person



For more information or to book a place please contact ALFED training and education manager, Kathy Rombach.
Email: kromback@alfed.org.uk
Tel: 07899 924 315.

More training opportunities are available on the ALFED website:
<http://bit.ly/TrainWithALFED>.



ALFED SALES & E-LEARNING COURSES

SALES COURSES

• Digital sales programme

The ALFED digital sales programme will equip you with the skills needed to drive more sales and increase your on-target earnings.

You will learn how to make extra sales faster and more effectively using social selling techniques.

This course is a live, interactive, presenter led online training one morning a week for six weeks to include tools like LinkedIn and other social media platforms.

We will start from the basics of selling up to some advanced techniques, such as:

- Introduction to digital selling
- Advanced consultative selling
- Using social channels to prospect and generate new leads
- Communication and engagement
- Social content
- Integration and strategy

Designed to help you integrate digital techniques into your sales process to acquire more prospects, reduce lead times, nurture customers and drive revenue.

When: 8, 15, 22 & 29 June and 6 & 13 July

Duration: One morning a week for six weeks

Cost: ALFED members £595+vat/person
Non members £695+vat/person

E-LEARNING

• LinkedIn mastery

Who is it for: If you are ready to get serious about using LinkedIn properly, then this online course is for you! Discover a system for using LinkedIn to generate a consistent pipeline of new leads and for building long-term, profitable relationships in your niche market. But why should you use LinkedIn to generate a consistent pipeline of new business leads, build strong long-term relationships with your clients now?

- LinkedIn can move you beyond a large marketing spend
- LinkedIn can establish you as an authority in your market
- You can grow your network faster and more effectively
- You can leverage your results through understanding

What will I learn: This course is designed to allow you to learn and develop your skills in an easy and practical way. Over the next 7-weeks, you will grow your skills each week which will help you develop new connections, clients and leads. .

When: Flexible online learning, start anytime

Duration: 7 modules over 7 weeks

Cost: ALFED members £125+vat/person –
Non members £175+vat/person

• Advanced consultative selling skills

Advanced consultative selling, also known as Rainmaker Selling, takes selling to the next level. It is designed to make sales work the way people buy, not the way you sell.

Who is it for: This course is for you if you want to become the best salesperson/business development professional in your market or the go-to expert for all clients who are serious about finding the right solution for their challenges.

What will I learn: This comprehensive program will teach you and your team how to lead conversations masterfully from the first touch point to an ongoing relationship. Our course will help you overcome a host of selling related challenges and unlocks all of the potential your market contains.

When: Flexible online, start anytime

Duration: 4 weeks

Cost: ALFED members £225+vat/person
Non members £275+vat/person

• Digital transformation

The course will cover:

- How technology has changed our world of work
- The mechanics of disruption
- Digital trends
- The path to digital transformation
- Digital transformation success stories

Who is it for: Team Leaders, Managers and Business owners.

What will I learn: Digital transformation involves optimizing processes and making workflows faster, easier, and more efficient because instead of spending hours processing paperwork, you can create digital workflows which increase efficiency and allow employees to focus on other activities.

When: Flexible online start anytime

Duration: 4 weeks

Cost: ALFED members £225+vat/person
Non members £275+vat/person

For more information or to book a place please contact ALFED training and education manager, Kathy Romback.
Email: kromback@alfed.org.uk.
Tel: 07899 924 315.





DIRECTORS' & OFFICERS AND MANAGEMENT LIABILITY

With spiralling claims costs, significantly reduced available capacity and escalating premiums, broking Directors' & Officers Liability (D&O) and Management Liability insurance now requires a more advanced approach.

Gallagher's view is that it is a challenging time to be talking insurance;

- Premiums are going up, and you're getting less cover for your money. Lower liability limits, reduced policy scope, and less markets available
- Pricing correction continues and there's more runway to go
- Claims are going up, and losses are hitting record highs
- Regulators are tightening controls, with closer scrutiny on the detail
- The insurance market dynamic has changed. Insurers have lost their appetite, rising litigation and the severity of risks is a big issue

BUT IT'S NOT ALL BAD NEWS...

With the right blend of technical skill, practical thinking and considered planning approach, we can help you achieve the right result.

Firstly, to underpin your strategy, it is important to prepare a presentation that clearly captures the big picture and drills into the detail. Having a firm handle on the numbers and a clear direction for your business will put you in a solid position for an insurer discussion.

The key considerations:

1. An overview of your business – strategy, market sector, customers & suppliers, industry metrics, turnover, headcount, etc.
2. Business performance during the Pandemic – trading stability, balance sheet perspective and cash flow position
3. How is the business communicating and engaging with key stakeholders – employees, landlords, tenants, lenders and shareholders
4. Controlled debt covenants, and a clear picture of cash head room on each of your covenants with expected performance over the next 12 months
5. Knowledge of your obligations under the 2015 Insurance Act

Preparing a quality presentation for discussion with insurers is a simple and yet effective strategy but also access to key personnel has a vital part to play - an impressive individual can prove more valuable to the outcome of any negotiation than streams of data!

PUTTING THIS INTO PERSPECTIVE...

Ultimately, it's a case of risk versus reward. Accept the risk of compromising on cover, or the benefit of having a solid grasp on the detail and a clear story for insurers. Insolvency is a big concern for underwriters. Proving you can trade through a more challenging period, pay the bills, and service debt over the short to medium term, demonstrates the resilience of your business and the strength of your plan.

GET IT RIGHT, AND YOU GET THE RIGHT RESULT. LEAVE IT TO CHANCE, AND PREPARE FOR THE INEVITABLE.

Gallagher Major Risks Practice (MRP) are associated partners to ALFED. This article is intended for guidance only. For further information, please contact: Russell Gregg, Technical Director - Strategic Business Partner (MRP) - russell_gregg@ajg.com



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www.ablcomponents.co.uk/

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www.advbrightware.com/

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www.strath.ac.uk/research/advancedformingresearchcentre/

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www.ams.ie/

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uk.emrgroup.com/

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For more information,
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