

ALUMINIUM NEWS

THE VOICE OF THE UK ALUMINIUM INDUSTRY

ISSUE 3 DECEMBER 2019



ALFED ANNUAL DINNER

The highlight of the ALFED calendar

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ALFED HISTORY

More than a fifty year story

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ALUMINIUM FEDERATION

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DATES FOR YOUR DIARY

JANUARY
9 Managing to Leading course – Day 1, Halesowen

FEBRUARY
13 Managing to Leading course – Day 2, Halesowen
27 TWI Welding Event, Cambridge

MARCH
18-19 Surface World, NEC Birmingham

APRIL
20-24 MACH 2020, NEC Birmingham
20-21 CRU World Conference, London
29 3M Event, Bracknell

JUNE
9-10 Subcon, NEC Birmingham

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ALUMINIUM FEDERATION

Find out more about our events and training opportunities:
www.alfed.org.uk

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ADVERTISING OPPORTUNITIES IN THE ALUMINIUM NEWS MAGAZINE:

The Aluminium Federation represents businesses who process, trade and work with aluminium; we foster innovation, promote best practice, develop skills and champion member interests. This ranges from training and networking to research, advocacy, lobbying and outreach, we help our members solve problems, capitalise on opportunities and boost their competitiveness. Our Aluminium News magazine will cover all these topics and more, keeping you abreast of the latest news, views and reviews in the fast-moving aluminium industry.

Our new, dynamic quarterly magazine offers you a great advertising opportunity to promote your products and services to key decision makers and influencers within the aluminium industry in the UK. The Aluminium News magazine will be available in hard copy and electronic version from our website plus social media platforms. All members will receive a hard copy and electronic version. We will also distribute copies at our events, meetings and industry exhibitions.

Schedule:

Issue 4 –
to be published
27 March 2020

Issue 5 –
to be published
29 May 2020

Issue 6 –
to be published
23 September 2020

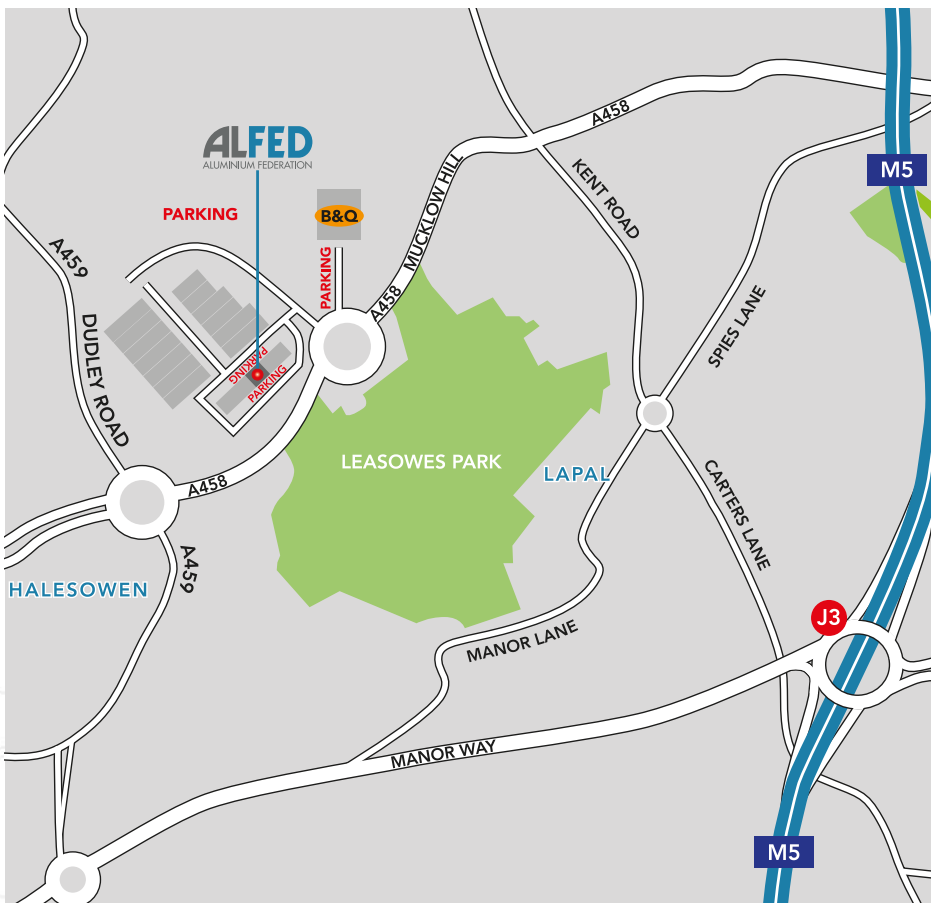
Issue 7 –
to be published
10 December 2020

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Our third issue of **Aluminium News** is quite timely bringing 2019 to a close, a year of political drama and political discord leading to industrial uncertainty and a lasting negative impact to our manufacturing industrial sector. The political war of words over Brexit, the global economic slowdown, the escalation of trades wars between the USA and China, the USA and the EU including the spat over Boeing and Airbus, all has derailed the industrial sector in 2019 and will affect us all in 2020. Whilst governments across the globe work to reduce GHG and carbon emissions we have President Trump withdrawing the USA from the Paris climate agreement.

QUARTER 4 UPDATE

The fourth quarter saw our membership increase to 11 new members this year, the latest new member being Aero Metals Alliance (read more about this on page 9) and two new knowledge partners including University College London and the Bartlett School of Architecture. The Aluminium Federation continues to develop membership attracting organisations that work in the aluminium industry, the wider industrial sector and now many others who support the sector supply chain. Our strategic partner program connects the Aluminium Federation members to a vast resource of knowledge and support from universities, Catapult centres, industry and across Government departments.

Brexit has dominated our landscape and workload over the past six months as government pursued a 'no deal' leave strategy introducing the 'Get Ready for Brexit' program. ALFED has worked tirelessly to ensure members have been informed and updated daily with information coming out of government. We applied for and was granted funding to put on a 'Brexit Readiness Event' which we delivered on the 30th and 31st October when we exhibited at the Advanced Engineering Show in partnership with BEIS and were supported by officials from HMRC.

ALFED continues to work with all government departments to ensure we are at the forefront of influencing policy development and industrial strategy. Our partnership continues to evolve with the Office for National Statistics (ONS) developing the National Materials data hub program providing valuable information and data on aluminium and the value chain. This work will continue well into 2020 to establish critical data on the flow of aluminium through the supply chain. ALFED's government partnership model moves forward with the Environment Agency, being part of the inaugural meeting of the Metals Industry Liaison Group which has been set up to focus efforts on the fair and consistent regulation of this high risk sector in order to help deliver environmental improvements and reduce the likelihood of serious incidents and accidents in the sector.

Our All-Party Parliamentary Group (APPG) provides opportunity for members to meet MPs and officials at the House of Commons. We have concluded our 2019 AGM where we were joined by an increasing number of MPs strengthening our political position. I am delighted to welcome Lord Horam as an officer of our APPG.

LOOKING FORWARD

In 2020 ALFED welcomes Clive Bush as our new president. Clive is an ALFED board member bringing valuable experience and insight from his role as Business Development Director of Amari Metals (read more about this on page 6). Giles Ashmead finishes his president's tenure at the end of 2019 and Giles' input will continue with his role as immediate past president and with the ALFED Finishing Sector group.

Our training and education program continues to grow with the development of the ALFED Academy incorporating leadership, management, workshop skills and further education. The program offers a level 6 degree program and a level 7 MBA in partnership with Wolverhampton Business School. Our university lecture program delivered technical lectures to students at the University of Wolverhampton and Coventry University. Technical training and workshop skills are critical to industry, so we are expanding our technical training offering to incorporate a wider scope of learning for 2020 and we are planning to establish our own aluminium apprenticeship program.

We continue to develop ALFED with our strategic partner program, negotiating significant partnerships with organisations that support our mission and drive value back to members. These key partnerships provide valuable resource, strategic advantage and strengthens our position within our UK industrial sector and beyond.

We wish you a very Happy Holiday season and a peaceful and prosperous New Year.

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

Tom Jones
CEO
Aluminium Federation



THE HIGHLIGHT OF THE ALFED CALENDAR!

The Aluminium Federation Annual Dinner & Members' Business Briefing took place on Thursday 12th September with after-dinner guest speaker Alastair Campbell.



The choice of venue this year changed to the modern, 4* Park Regis hotel, located in central Birmingham. Our Members' Business Briefing and evening dinner were held in the Sky Loft & Sky Gallery showcasing fantastic panoramic views across Birmingham city centre.

We welcomed senior industry leaders and Government officials from the Department for Business, Energy & Industrial Strategy (BEIS) to our Members' Business Briefing to speak about a wide range of topics including global trade, the circular supply chain, Streamlined Energy & Carbon Reporting (SECR), aluminium tariffs and much more. We thank all of our speakers for their time in presenting to over 60 delegates and for also helping to conclude such a successful business briefing.

Alastair Campbell, Journalist, Broadcaster, Political Aide and Author was our after-dinner guest speaker. Alastair spoke about matters circling mental health and shared many political, personal and inspirational stories. He created a fantastic atmosphere throughout the room of 190 guests and we once again thank him for concluding such a brilliant night.

Thank you again to our sponsors for their generous contribution to the 2019 Aluminium Federation Annual Dinner.

AMARI METALS LTD



ARCONIC



ANNUAL DINNER



"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



SAVE THE DATE:

Thursday 22nd October 2020

After such fantastic feedback this year, we will once again be hosting the annual event at the Park Regis hotel so please mark your diaries now.

More information
is available on our website.



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

HELEN WILLIAMS,
REAL ALLOY

FROM THE PRESIDENT

Clive Bush, ALFED President and Business Development Director of Amari Metals

Robert Kennedy said in a speech June 1966:

"There is a Chinese curse which says 'May he live in interesting times'. Like it or not we live in interesting times".

As I plan to take over the Presidency of ALFED from Giles Ashmead – I think I can say that we still do live in 'interesting times'.

Today we have no clear view of what 2020 will bring, but one thing we can be certain of is that we all will have to deal with several challenges on an individual, corporate and macro-economic level.

As we find our way in the new world that Brexit - in any form - will bring to the UK, ALFED will continue to promote and endorse the benefits of aluminium and the companies that work in this industry.

As Giles Ashmead relinquishes his presidency, I would like to thank him for

leaving ALFED in such a healthy position. Our new team has bedded in very well, the new offices are great and we have exciting times ahead as the members of the Aluminium Stockholders Association (ASA) join us in 2020 and we launch a new 'Stockholder and distributor' sector group. ALFED run a number of successful training courses, feedback from them continues to be extremely positive and we plan to continue working with our 'outreach' partners such as 'Bloodhound Education' and Brunel University, both of whom are working to inspire young people to become the engineers and inventors of the future.

Pre and post Brexit, we will maintain our involvement with Government, including the Department for Business, Energy & Industrial Strategy (BEIS), the Department for International Trade (DIT) and HMRC. The recent grant to ALFED to aid business understanding of the Brexit implications is a testament to the high regard in which it is held and appreciation of the work that it is doing.

My job over the next two years will be to build on the strength of ALFED, to

continue to work with Government to promote the aluminium industry in the UK and to ensure that we offer our members value for money.

Businesses, specially in manufacturing, understand that the 'future UK' must develop a comprehensive, competitive and technologically advanced manufacturing base. Aluminium, as a key constituent of aerospace, automotive, construction and energy production will be an important component in that future. It is also clear that aluminium has a vital role to play as we move towards "NET ZERO" emissions and as recycling becomes even more important.

I do think that we are living in 'interesting times', however I don't believe that for the UK or for ALFED that is a curse. I believe it's an opportunity and I am looking forward to being part of it over the next few years.



MEMBER SPOTLIGHT

VERTIK-AL – A LEADING POWDER COATING SPECIALIST SINCE 1966

Vertik-Al was one of the first companies in the UK to apply powder coating to aluminium. Today, the company processes thousands of architectural extrusions, pressings, panels, cills, rainwater goods, tubes, posts and associated items each week.

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In fact, the company is so committed to quality that it is happy to offer 25-year guarantee on all AkzoNobel gloss, satin and matt finishes, and that is extended to 40 years with AkzoNobel's class 2 Interpon D2525. These guarantees are further supported by 50+ years' experience in powder coating.

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BENEFIT FROM A RANGE OF SERVICES THAT HELP YOU DEVELOP YOUR BUSINESS, WORKFORCE AND SUPPLY CHAIN

As the voice of the UK aluminium industry, our mission is to expand the market for aluminium products by helping companies solve problems, lobby government and boost their competitiveness.

Whether it's providing technical support, delivering market insight, informing trade policy or offering networking opportunities – everything we do focuses on helping UK aluminium businesses capitalise on opportunities.

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're 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:

From technical support to lobbying, we support members working across all aspects of production and supply.

Here are some of the many you get as part of your membership:

- 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. I'm currently the ALFED president, and this gives me influence at a high level within government – I'm 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

"There are lots of great opportunities as an ALFED member. I read all the market reports as they come in and use the stats in my management reports – the directors find them very useful. The events are great because I talk to people that aren't just in extrusion like us. It's good to go along, have a chat and see how the market is progressing for everyone else. I go to the Extrusion Group meetings, and my colleagues go to others like Automotive and Innovation. That way the whole business benefits." **Steve Nash, Sales Director, Hydro Aluminium Profiles**

Contact us to discuss how ALFED membership can help your business

Membership levels are based on business size, so it's both affordable and valuable. T: 0330 236 2800

www.alfed.org.uk

OBITUARY OF BEN ARROWSMITH

Anthony John Arrowsmith (Ben) of Whitchurch, Shropshire passed away at his home on 4th October 2019 aged 67. His funeral was held at St Chad's Church, Hanmer on Friday 18th October with all donations going to the Shropshire Barn Owls and to fund a memorial box in Ben's name to Northern Lights Children's Charity.

Ben had a long association with ALFED and served as the Chairman of AAMRA from 2012 to 2014.

He started his career with H.H. Wardle Metals Ltd. in 1968 aged 16. He showed great promise and learnt very quickly and in the 70's he moved on to the furnaces where he learnt the practices of rotary operations for the melting of drosses. He quickly moved up the ladder and was in charge of the production until they closed in 2001. From that date he was a director of Befesa with a focus on the commercial activities of the Salt Slag recovery plant.

More recently Ben acted as a consultant offering his services and knowledge that he had gained over more than half a century within the Aluminium business.

His commercial expertise and his friendly manner won him many friends and much respect in the industry.

Ben had many loves outside of the industry and these included the many vintage Motor Bikes that he restored and rode, a superb collection of Antique Guns and his general interest in antiques. He also enjoyed the Countryside and his love of his dogs was renowned.

In 2017 Ben married Kate and was enjoying life to the full; with Kate broadening his horizons on travel and cultural activities and during their short time together it was obvious that they totally complemented each other. Our sympathies are extended to Kate and all their families.

Ben will be missed by many and we can just pay thanks that we had the pleasure to know him.



ADRIAN BAILEY RETIREMENT



After hearing the news of MP Adrian Bailey's retirement at the General Election, we would like to take the opportunity to thank Adrian for chairing the All-Party Parliamentary Group (APPG) since 2016. His support for the APPG and the Aluminium Federation is greatly appreciated and we wish him a very happy retirement from Parliament.

ALFED AND TAURUS MoU

ALFED have signed a Memorandum of Understanding with Taurus Insurance Brokers adding strategic value to all members. Taurus are going to be involved with a lot of upcoming events working together closely with ALFED and its members.



taurus-insurance.co.uk

ADVANCED ENGINEERING SHOW

This year's Advanced Engineering in October provided another great networking, technology and innovation showcase for manufacturers, suppliers and technology partners. It was an extremely busy two days, with a 5% rise in visitor attendance reflecting the resilience and momentum behind the UK's advanced manufacturing sectors, even in the most challenging of climates.

ALFED hosted free Brexit Readiness Briefings at their stand with officials from the Department of Business, Energy and Industrial Strategy (BEIS). The BEIS representatives gave visitors the most up-to-date information on Brexit and explained what businesses need to do to continue trading with the EU. Fiona Hitchiner, Senior Policy Advisor at BEIS, and Tom Jones, CEO of ALFED, also gave presentations at the automotive and aerospace forums on Brexit and the work ALFED is carrying out with the government.

Next year's Advanced Engineering show will take on 4 & 5 November. We will be having the ALFED Aluminium Pavilion offering our members an opportunity to be part of it at discounted rates.

If you would like more information, please contact Kirsi Lintula at ALFED. Tel: 07768 566437 or Email: k_lintula@alfed.org.uk.



MACH 2020 - BE PART OF IT...

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- MACH is the platform to exhibit your latest products, services and leading-edge developments to an audience of key decision makers attracted from across the UK's manufacturing sectors.
- Whatever your role in manufacturing, there is a space for you at MACH that will place your products and services, technologies and ideas in front of an engaged audience with real buying power.
- Uniquely, MACH attracts over 25,000 visitors to experience the latest developments in advanced engineering and manufacturing technologies - in operation, in one space, under one roof.

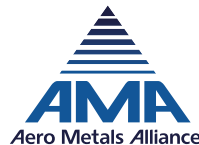
Call Kirsi Lintula to book your space:
07768 566 437 or email
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AERO METALS ALLIANCE (AMA)

Aero Metals Alliance (AMA) provides Aluminium, Stainless Steel, Alloy Steel, Titanium, Nickel Alloys and supply chain management services to the world's leading aerospace companies. We are able to aggregate demand across a single supply chain on behalf of the world's leading OEMs whilst at the same time providing a responsive local service to meet the needs of individual sub-contractors anywhere in the world. AMA includes some of the world's leading metal suppliers; Gould Alloys, Service Centres Aero, Wilsons, Sunshine Metals and Progressive Alloy. Together, these companies deliver a complete range of aerospace and high performance metal products from ten destinations across the globe.

www.aerometalsalliance.com



WELCOME TO ASA MEMBERS WHO ARE JOINING THE ALUMINIUM FEDERATION

All Metal Services	www.allmetal.co.uk
ASC Metals Lincoln	www.ascmetals.com
Nextday Metals	www.nextdaymetals.co.uk
Cashmores Metals	www.cashmores.com
Dore Metal Services	www.doremotals.co.uk
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Metalex Products	www.metalex.co.uk
Metalweb	www.metalweb.co.uk
W & S Allely	www.allely.co.uk

ALUMINIUM STOCKHOLDERS ASSOCIATION 54TH DUTCH PARTY

The Aluminium Stockholders Association's (ASA) 54th Dutch Party took place recently at The Belfry Hotel & Resort, Sutton Coldfield. This has been an annual event since 1965 when the first ever Dutch Party was held at the Churchill Hotel in London.

Why Dutch Party? So named because everyone paid for their own ticket even those invited as a guest. For over 50 years stockholder members, producer associate members and service provider associate members have enjoyed dinner followed by either a guest speaker or entertainment in locations across the UK from the Savoy in London to Gleneagles in Scotland.

This year 20 members took advantage of the event taking place at The Belfry by participating in the Annual Peter Burke Memorial Golf Trophy on the PGA National course prior to the Dutch Party where Tom Hunter of Dore Metal Services successfully carried off the trophy despite the damp conditions underfoot.

In the evening 80 members and their guests from both the UK and overseas enjoyed a three course dinner moving tables for each course as is the tradition of the Dutch Party followed by entertainment from Vesper, an electric string quartet with their high impact twist on a variety of music from Pink Floyd to Madonna. During the evening over £5000 was raised for Kids Out and SPARKS children's charities.

Always a popular event in the aluminium industry's calendar, it is ALFED'S intention to continue to organise future Dutch Parties after

the ASA stockholder members move to ALFED membership in January 2020.



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 - Spacious and bright room •
 - Competitive prices •
 - Tea/Coffee facilities •
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 - Free parking •
- Catering available upon request •



For further information please contact
Linda Ford at ALFED on **0330 236 2800**
or email L_ford@alfed.org.uk.

ALUMINIUM FEDERATION TECHNICAL TRAINING COURSES AND LECTURES

Aluminium is rapidly becoming society's metal of choice with its ease of application, lightweight, strength, corrosion resistance and not least infinite recyclability. Dominating metal innovation in automotive, architecture and aerospace sectors, substituting for steel and plastics, and awakening the packaging industry to its possibilities. From the turn of the century primary aluminium production has tripled to 60 million tons with recycling predicted to reach 26 million tons.

Sadly, the reality is that the basics of aluminium are not taught in apprenticeships, colleges or universities, nor indeed is its engineering potential, basic metallurgy or even its unique processability such as "extrudability". To fill this knowledge gap the Aluminium Federation with universities, specialist manufacturers and experts in the industry has developed and offers a full range of technical support and training courses in aluminium, from simple introductions to the equivalent of the second year of a metals technology degree.

Each course is specifically tailored to the needs of the audience, the level of students' knowledge, their industry sector and processes. In-house courses for both members and non-members are specifically written to agreed syllabuses and courses can be supplemented by specialists and experts, e.g. welding or "Additive Manufacturing" from within the whole industry.

Specific courses can be written for universities and educational bodies as an integral part of their own teaching programmes.

Given the heavy demand ALFED offers throughout the year scheduled courses, which although having a central theme are still tailored to the students' requirements.



EDUCATION

ALUMINIUM FEDERATION TECHNICAL LECTURES

The Aluminium Federation continues its programme of raising the profile of aluminium and its applications. ALFED opened the evening seminar "A Night with Ali" organised by our knowledge partners The Institute of Materials Finishing and The Welding Institute, held on 3rd October in Portsmouth.

Setting the scene for the growth in aluminium industry within the UK and introducing its application in the automotive and construction industries, the lecture focused on some of the more unique properties of the metal encountered by the specialist fields welding and surface engineering of our knowledge partners technologists.

Education is the foundation of knowledge and ALFED is actively supporting UK universities with specialist lectures on aluminium, aluminium metallurgy and industry related topics. ALFED supports Coventry University's program where 170 students are enrolled into the first year of automotive engineering and motor sport courses.

Seeding students' minds to the endless possibilities of aluminium in a lecture on aluminium grades used in automotive with an introduction about them, their constituents and properties that make them unique for automotive applications and on strengthening methods of aluminium alloys specifically for automotive applications.

ALFED underpins the customer, architect and systems house targeted training carried by its individual members complementing those organisation's own technologists with lectures and training on specialist topics, increasing the wider understanding of aluminium and its applications.

During October ALFED supported and complimented the Hydro Extrusion UK "Profile Academy" in the Bedwas plant, with lectures on the sustainability of aluminium and on anodising of aluminium.



ALFED ESSENTIAL LEADERSHIP SKILLS PROGRAMME

The development of the future leaders is essential for business planning and the associated supply chain.

It is important to our members and to the wider industry - we all seek to nurture talent and foster a culture of continuous improvement.

Our courses are practical and engaging for all levels:

- Proven and popular programmes focused on learning that can be immediately applied in the workplace
- Cost effective
- Accredited by the CPD Certification Service, the UK independent continuing professional development scheme

In addition, industry takes the health and safety of the workforce seriously. We have a range of courses available to the industry, designed for all levels and any size of company.

OUR COURSES COVER:

Frontline

For those new to management or who have been managing for a short time, or who may be taking on a management position in the future.

Basic supervisor's workshop

For those moving into a supervisory role or new to the role.

Linkedin workshops

When LinkedIn is used strategically it can be a major asset to your business.

Middle level

For those managing departments or teams and who take responsibility for delivering business objectives through other people. Also useful for managers who want to learn more about leading & managing and getting the best from their people.

Flexible apprenticeships

We recognise that every organisation is different and one of the strengths of these new apprenticeships, is the high level of tailoring we can offer our members. A flexible blended learning approach ensures that each qualification can be tailored to meet the needs of your business.

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or visit
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They are a national training provider specialising in the delivery of high-quality employer led apprenticeships that raise the standards of your workforce. They work closely with you, the employer, to implement and ensure the programme design meets your workforce development needs and is to the highest standard.

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If your organisation's wage bill is less than £3 million you will not pay into the levy pot, however, you will qualify for 95% funding from the government.

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Middle Management

Workshop skills programme

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Supply Chain Operator

Senior degree programme

Chartered Managers Degree
MBA

Please contact us for further details on these programmes and how to access government funded training 0121 281 2281.



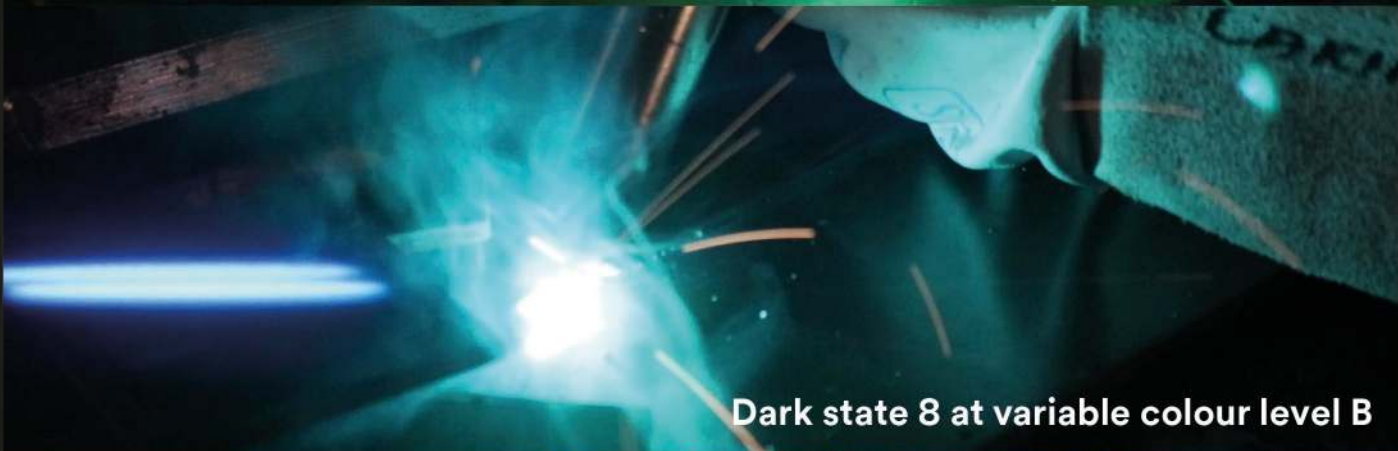
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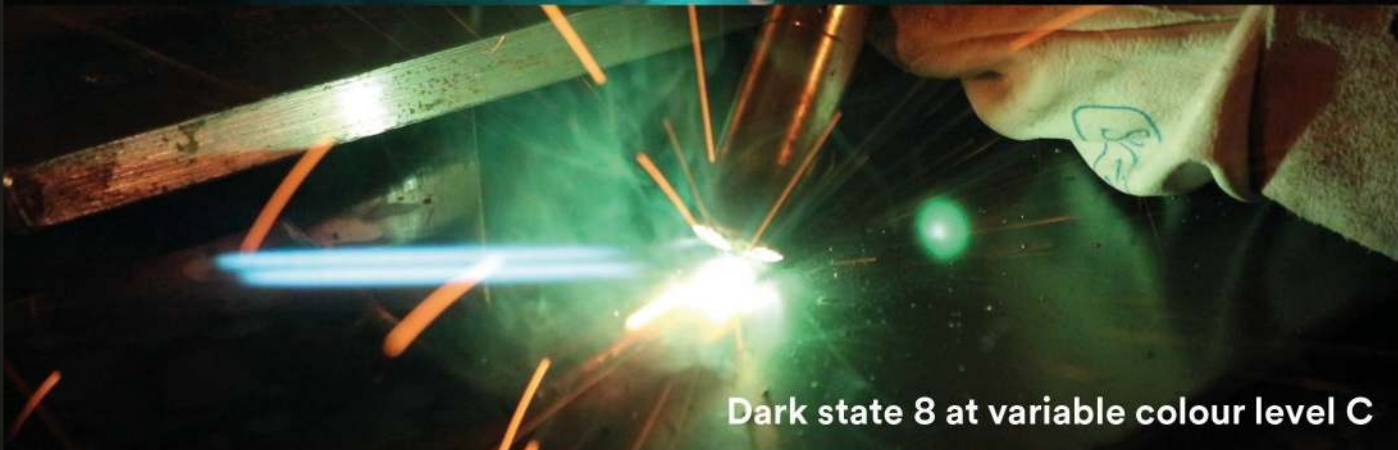
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ALFED MEMBERSHIP OF THE METAL INDUSTRIES LIAISON GROUP



ALFED and the UK aluminium industry have always been at the forefront of UK industry in its active consideration and protection of the environment. ALFED has joined Metal Industries Liaison Group (MILG) to continue its championship.

The MILG has been set up to focus the efforts of UK industry on the fair and consistent regulation of this important sector in order to help deliver environmental improvements and reduce the likelihood of serious incidents and accidents in the sector. This will enable UK industry to influence and help formulate regulations and policies, to allow dynamic communication between industry and UK government.

The group is convened and chaired by the Environment Agency; its objectives are:

- Be a common point of reference for sector specific BREF discussions which can be fed into the relevant Shadow Technical Working Group (STWG).
- Be a common point of reference for sector specific discussions on Seveso III/ COMAH, REACH and new technologies.
- Share awareness of wider sector issues and technical expertise.
- Develop strong links with, and an understanding of the sector through inter-Agency (including Government Departments) and business liaison, joint events and training opportunities and site visits.
- Influence both internal and external decision making that affects the sector.
- Provide a focus for dialogue and collaboration between the industry regulators and the regulated.
- Will provide a member for the EAs Regulated Industry Forum.
- Promote Health, Safety and Wellbeing.



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MORE THAN A FIFTY YEAR STORY

The Aluminium Federation (ALFED) was set up in 1962, with the amalgamation of two existing aluminium industry organisations: the Aluminium Development Association (ADA) and the Aluminium Industry Council (AIC).

The ADA in London, under Dr. Ted West, had earlier done some exemplary work in establishing what is, still today, the ALFED library, and also in working to develop new markets for aluminium cast and fabricated products to allow the aluminium facilities developed before and during WW II to continue production. ADA also had an education program and sponsorships to promote aluminium. They produced some excellent technical guides on aluminium production and end use that were widely used. The AIC, in Birmingham, under Mr H R Murray-Shaw, was predominantly a statistics-based organisation. Mr Murray-Shaw was appointed the first Director of ALFED and Mr Edward Player, MD of Birmid Industries Ltd., was the first President.

By 1968 the London offices were closed and all of the ALFED activities were based in Birmingham, some in Broadway House in Edgbaston and some in temporary offices while a new office block at Broadway House was being built. The new office block was funded equally by ALFED and by Calthorpe Estates, the landlords, in exchange for a 50-year lease at a much-reduced rent. It was to be a model for the use of aluminium in building and construction and it opened in 1971.

In 1972 Mr Murray-Shaw left ALFED and he was replaced by his deputy, Mr Paddy Matthews, who became Secretary General. He, and the then President, Mr Ronnie Utiger of British Aluminium, revamped the organisation into industry sectors as it is today, with each sector having a representative on the ALFED Council.

The late 1960s and early 1970s saw a rapid expansion of primary aluminium capacity in UK, with three new primary smelters being set up at Invergordon (British Aluminium), Lynemouth (Alcan), and Anglesey (RTZ/Kaiser). The political issues over the long-term supply of affordable energy was such that ALFED established relationships, not just with government departments, but also with constituent MPs and Members of the House of Lords with an interest in the industry.

ALFED was a prime mover in the early 1980s for the establishment of the European Aluminium Association (EAA), which was set up in 1981 in Dusseldorf and later, for political reasons, moved to Brussels. The inaugural EAA General Assembly and Dinner were held in London, hosted by ALFED with Mr David Morton as President.

In 1988 Dr David Harris took on the role of Secretary General on the retirement of Paddy Matthews. He was already well known to ALFED as the representative of the aluminium secondary refiners, then ALARS, for whom he was an ALFED Council Member. Almost immediately there came the ill-founded allegations that aluminium chemicals played a major role in the causation of Alzheimer's disease.

ALFED was a co-sponsor of several international medical conferences and also ran a very active media campaign, including live national TV and radio appearances. ALFED also successfully took several complaints to the Broadcasting Complaints Commission and the Advertising Standards Authority.

One of the tasks at that time, and one that became of significant importance, was to establish formally the Aluminium Industry All Party Parliamentary Group, with MPs and Members of the Lords, under the chairmanship of Helen Southworth, MP for Warrington South, where British Alcan had established Europe's first dedicated aluminium beverage can recycling operation.

ALFED during this time was regarded as a model trade association by the government department for industry, DTI, and received funding for their newly installed computer system as a demonstration for other trade associations.

In the late 1990s the Government began discussions with the high energy users' industries, of which aluminium was one, on the Climate Change Levy (CCL). The initial proposals on CCL were such that the additional levy on energy costs would have cost the UK aluminium industry some £45 million extra each year and overnight would have left UK smelters bankrupt. Helen Southworth, as Chair of the All Party Parliamentary Group, was able to open doors for ALFED to the Treasury and even to No 10 Downing Street, to which ALFED took their lobby. Under the then President, Paul Rata, ALFED was able to obtain concessions on CCL that greatly reduced the financial impact, in exchange for achieving energy efficiency targets across the industry. So important had this lobby become that Paul Rata was asked to stay on as President for a third year to keep up the momentum. Sadly it was eventually to be energy contracts, energy taxes and European legislation on air quality that led to the closure of

all three of the new primary smelters, BA Invergordon in 1982, Anglesey Aluminium in 2009 and RTA Lynemouth in 2012; each one efficient and well run but unable to withstand the pressures caused by taxation and by the expansion in China and the Gulf States in primary smelters. David Harris retired from ALFED in 2005 and Will Savage from the Cast Metals Federation took over at ALFED, now as Chief Executive. Since the Broadway House and adjacent office block were now a drain on resources, with the reduced staff numbers, ALFED moved to the National Metalforming Centre in West Bromwich, which had been built to house West Midland Trade Associations in the metals industry, with purpose-built offices, meeting rooms and conference facilities.

Looking back over fifty years, the aluminium industry in UK has changed significantly as the ownership of the industry has tended progressively to move out of UK and the industry has been restructured and rationalised. The Aluminium Federation has always put service to its members as its highest priority and has been prepared to change as the industry has changed. Over the years it has developed relationships with legislators in Westminster and Brussels, with the press, with academia and with the public that have given ALFED the international credibility that it has today and will have over the next fifty years.

SEVEN MORE YEARS AND BEYOND

Mr Giles Ashmead became President in May 2017 and has overseen a period of unprecedented change to the Aluminium Federation. As this was approximately 12 months after the UK had voted to leave Europe, we were just starting to understand what the process involved and how it could affect our industry. Once the Brexit process reached the trade negotiation stage, we suddenly gained huge attention from the Department of Business, Energy and Industrial Strategy, who wanted to understand our industry, how we deal with Europe and how tariffs would affect our business. Thrown into this mix was Section 232 and the threat of tariffs from the US, which developed in a US trade war with China and also issues with sanctions on Rusal which could have had a major impact on the supply chain if not resolved. As a Federation we have had more meetings and contact with Government officials in the last two years than probably in the preceding decade, and we have represented our industry and our members robustly in getting our points and priorities across to the people who have influence.



We collaborate across many government departments including DIT, BEIS, HMRC, ONS and the Environment Agency. We currently co-chair with the office of BEIS the Thematic Aluminium business panel covering work including Rules of Origin, tariffs, Brexit, trade remedies, safeguarding and free trade agreements.

We have developed a substantial strategic partner program working with organisations such as the UK Metals Council, International Aluminium Institute, European Aluminium, The Welding Institute and many more who support the development and growth of the UK aluminium industry. Our knowledge partner program includes Catapults like the AFRC, leading R&D organisations like BCAST. Our university partners are Wolverhampton, Strathclyde, Sheffield and Brunel, other collaborating partners are Innoval, IMF and other trade bodies.

We have also witnessed major change internally within the Federation. Tom Jones joined as our new CEO, we have welcomed Kathy Romback, Melissa Beasley and Linda Ford to the team.

We have introduced new Management Training courses, taken over the running of the school's challenge, gained many new members from all areas of the industry and beyond and most recently have relocated ourselves to much more suitable offices.

These changes have all been made with a focus on engaging with a wider range of other industry bodies and developing the variety and level of services, so we can offer more value to our members.



Tom Jones, CEO



Giles Ashmead, President

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UPDATE FROM THE LONDON METAL EXCHANGE AT THE ALFED MEMBERS' BRIEFING

The London Metal Exchange (LME) joined ALFED members for the annual members' briefing in September and gave an update on recent LME developments and initiatives impacting the aluminium industry.

The LME is progressing a number of strategic initiatives, and 2019 has been a busy and successful year. Christian Mildner, the LME's Head of Corporate Sales, stressed the importance of an active and open dialogue with both ALFED and its members.

Year-to-date overall trading volumes across all metals on the LME are down by 2.3 % compared to last year. However, 2018 trading volumes were higher than normal given the large one-off impact from the US sanctions imposed on Rusal. When excluding this one-off effect in 2018, overall 2019 trading volumes are showing robust growth.

In March 2019 the LME introduced seven new cash-settled futures contracts, which differ from the more traditional base metal contracts the LME is known for, since they are monthly futures that settle against the monthly average of an underlying index and cannot be settled by physical delivery. Of these seven contracts, three cater for the evolving needs of the aluminium industry: two new premium contracts – LME Aluminium Premium Duty Unpaid European (Metal Bulletin) and LME Aluminium Premium Duty Unpaid US Midwest (Platts); and LME Alumina (CRU/Fastmarkets MB).

The launch of these new instruments – joining LME primary aluminium, NASAAC, aluminium alloy and four physically-settled premiums contracts – enables customers to hedge risk along the value chain, both downstream (premiums) and upstream (alumina). Christian Mildner also mentioned that the exchange is working on adding further contracts to its premiums offering to allow for tailored risk management in other key regions.



In addition to working with the market to develop new contracts, the LME continues its efforts to enhance its existing products. For example, the exchange recently enhanced the discovery process for the closing prices of its physically settled contracts. Closing prices are used to calculate margin calls and the evening valuations of open positions. These prices are determined in the last open outcry session in the Ring, called the 'afternoon kerb' trading session.

Following a Ring Dealing Committee recommendation, the LME trialled a 10-minute kerb trading session for LME Zinc between March 2019 and June 2019. The feedback on the trial was very positive, as Ring dealing members confirmed improvements in their ability to manage their positions and in the price discovery process. Trading volumes during the trial period were also up by more than 50 % compared to the 3-month period prior to the trial. For these reasons the LME has decided to extend kerb trading times from 5 to 10 minutes for aluminium, copper, lead, nickel, tin and zinc. To allow for the extended kerb sessions to take place, the fourth Ring sessions have been removed and the discovery of Unofficial Prices has been moved to the third Ring. The changes took effect on 23 September 2019 and the updated sessions are detailed in the figure opposite.

In an effort to reach more Asian market participants a set of six USD-denominated HKEX London Mini contracts have been launched on 5 August 2019 which can be traded electronically on the Hong Kong Futures Exchange. The mini contracts offer 12 consecutive monthly futures for aluminium, copper, lead, nickel, tin and zinc with a smaller contract size. Tin and nickel have a contract size of 1 MT per lot, while the other four are 5 MT per lot. The launch of these contracts opens metals price risk management to a whole new set of market participants.

Metal (carry trading / 3M trading)	Close out times
Zinc (8 min / 2 min)	15:50 – 16:00
Tin (8 min / 2 min)	16:00 – 16:10
Lead (8 min / 2 min)	16:10 – 16:20
Cobalt/Molybdenum (4 min / 1 min)	16:20 – 16:25
Aluminium (8 min / 2 min)	16:25 – 16:35
Premiums/Alloy/NASAAC (4 min / 1 min)	16:35 – 16:40
Copper (8 min / 2 min)	16:40 – 16:50
Nickel (8 min / 2 min)	16:50 – 17:00

Contract	USD London Aluminum Mini	USD London Zinc Mini	USD London Copper Mini	USD London Lead Mini	USD London Nickel Mini	USD London Tin Mini
Contract Size	5 tonnes / contract				1 tonne / contract	
Trading / Settlement Currency	USD					
Minimum Fluctuation	USD 0.50 / tonne				USD 1 / tonne	
Final Settlement Price (FSP)	Shall be determined by the Clearing House, and shall be the Official Settlement Price determined and published by The London Metal Exchange two London Business Days before the third Wednesday of the Spot Month					
Settlement Method	Cash-settled					

For any queries, please get in touch through sales@lme.com.

The Aluminium Centenary Pavilion (1954) designed, fabricated and assembled by Jean Prouvé, has since 2000 been located at Villepinte near Paris.



JEAN PROUVÉ: AN ALUMINIUM PIONEER

An article for
Aluminium News by
Professor Michael Stacey
and Dr Christopher Leung

Metal was mutable, purposeful and poetic in the hands and imagination of Jean Prouvé (8 April 1901 - 23 March 1984). Much remains to be learnt from this pioneer of the use of aluminium to assemble architecture. Pavilions are test beds for ideas for future architecture and new (or newer) technologies and techniques, which often cross over into mainstream contemporary architecture and infrastructure in a very short timescale.

Jean Prouvé's Aluminium Centenary Pavilion was built in 1954 to celebrate the 100th anniversary of the industrial production of aluminium in France. L'Aluminium Français commissioned the pavilion to host an exhibition demonstrating the possibilities of aluminium in construction and to promote its further use. Prouvé did this by combining aluminium fabrication technology: folded sheet, extrusions and castings, all left mill finished. Prouvé

is known for his ability to intelligently connect a material's capability to a construction logic, an aesthetic born through making.¹ Much of his career was dedicated to designing lightweight building systems, which were easy to fabricate and construct. The Aluminium Centenary Pavilion is one of Prouvé's most ambitious works and a key building in his manifesto of early high-tech architecture. Over 60 years since its initial conception, the pavilion's structural use of aluminium remains an exemplar of how it can replace steel and timber.

The pavilion was a 152m long structure with a frame spanning 15m, placed at 1.34m centres. It was assembled beside the river Seine in central Paris in 21 days, using prefabricated components that Prouvé designed to be readily assembled and disassembled. The structure's subsequent journey displays this flexibility for reuse rather than recycling. The pavilion remained in Paris until early 1956, when André Lannoy Senior and Junior purchased it from the demolition contractors, as they thought it deserved

a better fate than being recycled. It was then transported to Lille and rebuilt in the context of the Palais de la Foire, with its Prouvé designed and manufactured façade.

The Aluminium Centenary Pavilion endured drastic transformation when reassembled in Lille, leaving it almost unrecognisable. Reassembled with two naves in an L-shaped plan with a steel structure completing a rectangular hall. The folded-aluminium roof beam components were cut and mitred to form the L-shape. Prouvé's aluminium frames were assembled without the smaller extrusion posts and instead the rear façade castings sat on a steel beam.



Detail of the cast aluminium junction between two mill-finished aluminium beam components formed from 4mm aluminium sheet. Note that the beams also serve as gutters to the roof panels.

The rear façade extrusions were therefore not needed and were instead used to extend the front façade extrusions and make the overall building taller; to do this, each of the smaller extrusions were cut into three pieces and welded to the larger extrusions. The front façade castings and extrusions were also painted yellow for decorative purposes – ‘pour faire jolie’.

In 1987, Peter Sulzer, author of *Jean Prouvé: Complete Works*, visited the exhibition site when the façade of the Palais de la Foire was being demolished and the Foire authorities did not know the Aluminium Centenary Pavilion was nearby: ‘a masterpiece forgotten!’² The pavilion was scheduled for demolition in 1990, but its inclusion in the *Supplementary Inventory of Historical Monuments* in February 1993 saved it from irremediable destruction.³ It was in these circumstances that André Lannoy Jr agreed to ensure its dismantling and storage. The process of disassembly in July and August 1993 was akin to an archaeological dig, where each piece was released and recorded. In 1997, an exhibition, *L’art de l’ingénieur* at the Centre Georges Pompidou in Paris exhibited three bays of the Aluminium Centenary Pavilion and helped to revive its profile.⁴

In 1998, the pavilion was bought by SIPAC, the owner of its current location at Villepinte, a large exhibition site near Charles de Gaulle Airport. Architecture-Studio (AS), with consultants Richard Klein and Axel Vénacque, carried out the reconstruction and restoration of the pavilion between 1999 and 2000 recorded in a remarkable film.⁵ The main aim was to restore the Aluminium Centenary Pavilion to its glory days on the banks of the river Seine in 1954, aided by Prouvé’s many drawings. The reconstruction cost €640,000, but the pavilion had to be shortened to 90m, partly due to the components available after its reconfiguration and partly because it had been poorly maintained. At Villepinte, a total of 68 frames were used, meaning 48 frames were lost or too badly damaged to be reused; reducing the overall area from 2,250m² to 1,350m². The folded-aluminium beams were made in Prouvé’s Workshops from 4 mm semi-hard AG-3 sheet aluminium.⁶ Each beam was made in three parts, making the reuse of components more efficient.⁷ The 5m long roof panels made from thin 1.6 mm aluminium sheet connect to the folded beams using coupling pins, a fully reversible construction.

For Villepinte, the rear elevation extrusions were remade, as these were too badly damaged from the reconfiguration in Lille. The supports on the rear façade were also remade and positioned as they were on



Detail of the aluminium casting that links the beams to the extruded aluminium wall props

the bank of the river Seine. In Prouvé’s original plans for the pavilion, he relied on the wall at the back of the site for structural rigidity. Most of the almost-pure aluminium façade panels with calotte-shaped pressings were all looted from site, therefore the main façade was fully-glazed and the rear façade was clad with new sheet aluminium. This pavilion is an early example of design for disassembly (DfD), which is current best practice in construction. Enabling buildings to be relocated, components reused or material recycled. A key element of resource efficiency, as we rapidly progress to net zero carbon architecture.

This paper is based on M. Stacey (2015) *Aluminium Recyclable and Recycling: Towards Sustainable Cities*. One of five books from a research programme into aluminium, undertaken by Michael Stacey Architects with Kieran Timberlake and funded by International Aluminium Institute, which can be downloaded via: www.world-aluminium.org/publications/tagged/towards%20sustainable%20cities/

Authors:

Dr Christopher Leung is an architect with an engineering doctorate. He undertakes research and teaching at the Bartlett School of Architecture.

Professor Michael Stacey is an architect who convenes Michael Stacey Architects, and undertakes research and teaching at the Bartlett School of Architecture.

Notes:

- 1 N., Peters (2013), *Jean Prouvé: 1901–84: The Dynamics of Creation*, Taschen, Cologne, p. 7.
- 2 P. Sulzer (2004), *Jean Prouvé: Œuvre complete / Complete Works, Volume 3: 1944–1954*, Birkhäuser, Basel, p. 343.
- 3 Culture Communication France (1993), *Supplementary Inventory of Historical Monuments*, February, available online at www.culturecommunication.gouv.fr/Politiques-ministerielles/Monuments-historiques/Intervenir-sur-un-monument-historique/Les-immeubles-inscrits-au-titre-des-monuments-historiques (accessed March 2015).
- 4 A., Picon (1997) *Art de l’Ingénieur: Construction Entrepreneur Inventeur*, Centre Georges Pompidou
- 5 Fillion, Olide, (1999), *Le Pavillon de L’Aluminium Remontage 1999*, Film, Production: Mirage Illimite, Dominique Belloir, Producer; Olide Fillion,
- 6 P., Sulzer (2004), *Jean Prouvé: Œuvre complete/Complete Works, Volume 3: 1944–1954*, Birkhäuser, Basel, p. 339.
- 7 Recorded from an email conversation between Richard Klein and Laura Gaskell in December 2013.



Although no longer located on the banks of the river Seine – the glory days of Jean Prouvé’s 1954 Aluminium Centenary Pavilion have returned to Paris. Its curtain walling is contemporary in appearance.

DEMONSTRATING SUSTAINABILITY IN THE ALUMINIUM SECTOR

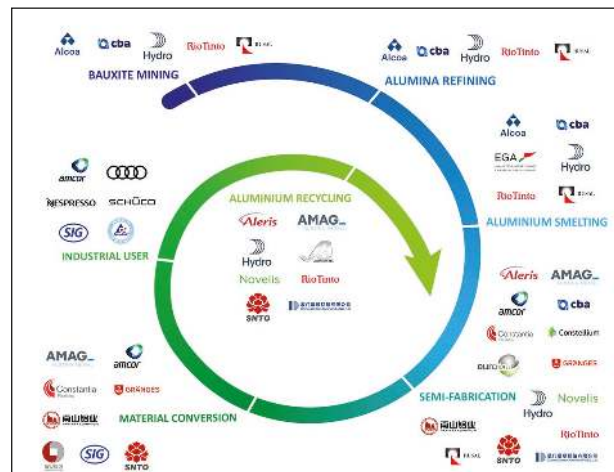
The Aluminium Stewardship Initiative's (ASI) Certification program was developed through an extensive multi-stakeholder consultation process and is the only comprehensive voluntary sustainability standard initiative for the aluminium value chain. It is designed to drive responsible production, sourcing and stewardship of aluminium through uptake of the standards throughout the industry.

CERTIFICATIONS ALONG THE ENTIRE VALUE CHAIN

ASI launched its Certification program in January 2018 and issued its first Performance Standard Certification four months later to Rio Tinto for their refining and smelting operations in Quebec, Canada and bauxite mining in Australia. As of November 2019, 37 Performance Standard and 11 Chain of Custody Standard Certifications have now been issued to ASI Members' operations in 19 countries. Taken together, ASI Certifications already show uptake in all parts of the aluminium value chain.

ASI CERTIFIED ALUMINIUM ON THE MARKET

Five ASI Members have achieved Chain of Custody Certification for their vertically integrated operations, from the bauxite mine up to the casthouse, meaning that a growing supply of ASI Aluminium is now able to be sold on the market. The world's first certified responsible aluminium is now being sourced by downstream use sectors, and we are already seeing on-product ASI certification labels appearing on store shelves.



MEASURING AND COMMUNICATING ASI'S IMPACT

An important focus for ASI is our Monitoring and Evaluation program, which enables us to measure and communicate on the change on the ground from implementation of the ASI Standards. The "Outcomes Dashboard" on our website has begun to display key performance indicators that will continue to be expanded as new data becomes available.

More information at aluminium-stewardship.org.

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ALFED HEALTH, SAFETY AND ENVIRONMENTAL SUPPORT GROUP

UK Industry and ALFED members face an intimidating plethora of new understanding of occupational diseases, the causes of cancers, climate change, Carbon and Green House Gas taxation, UK Government legislation changes, the emergence of the no win no fee litigation culture and the restructuring of both the Health and Safety Executive and the Environment Agency. Hypothetically, all constitute knowledge gaps that can overwhelm and seriously threaten unwary businesses!

On that basis, one of the most important inclusive elements of ALFED membership is the Health Safety and Environmental Support Group. This dynamic group meets at least quarterly and is open to all members of the ALFED. Members include health and safety practitioners, engineers and operations personnel from across all ALFED companies underpinned

by consultants and with active participation by the Health and Safety Executive and the Environment Agency, a veritable powerhouse of knowledge and support.

The group objectives are to identify, understand, share knowledge and best practice, to create safe and secure workplaces, that comply with legislation. We do this by identifying, reviewing and promoting health and safety standards within the industry to take a holistic approach, considering employee well-being, materials handling, hazards, culture, technology, respiratory issues, safeguarding and much more. This will enable us to interact, advise and influence future legislation.

Our next quarterly meeting will take place on Thursday 12th December.

Please contact us for more information or to reserve your place – Tel: 0330 236 2800.



WORK SAFETY

Procedures

NEXT GENERATION WELDING HELMET WITH LATEST TECHNOLOGY FROM 3M

The UK aluminium industry is one of the most diverse and with that comes multifaceted health and safety challenges such as eye injuries and respiratory exposure to weld fume. Successful protection starts with an understanding of how individuals use the equipment day to day. 3M, the science based technology company, uses its expertise to apply science to real life situations to help improve safety, compliance and productivity for workers.

3M has launched a highly versatile welding helmet with a range of advanced features that improve comfort and functionality. Called the Speedglas Heavy-Duty Welding Helmet G5-01, it is available with two filter options, enabling users to choose a filter that better meets their application requirements. The new helmet also offers Natural Colour Technology for more realistic colour in all states; adjustable airflow; increased configuration versatility for added protection against radiation, sparks and spatter; a Bluetooth® app; and an optional helmet-mounted task light.

Designed for heavy-duty, high-amperage welding and grinding, the G5-01 helmet from 3M connects to the Adflo Powered Air Respirator from 3M to provide TH-3 rated respiratory protection (APF 40)2. For conditions where supplied air is required, 3M also offers its Versaflo Series Regulators.

Versatility has been built into the G5-01. For extended non-welding work, the welding visor can be removed - whilst retaining the clear grinding visor - making the helmet up to 36 per cent lighter. Adjustable functions are also clearly labelled on the helmet and can be made whilst worn and wearing gloves. In addition, with interchangeable neck protection and a new headband design, comfort and flexibility have been designed into this highly versatile helmet.

For additional information on the new Speedglas Heavy-Duty Welding Helmet G5-01 from 3M, visit 3M.co.uk/safety/speedglasG501.





Architectural & Metal Systems

- ▶ Manufacturers of modern, stylish, secure and thermally efficient aluminium window & door systems
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- ▶ Stylish single/twin colour and wood effect "Decoral"
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T: +353 21 4705100

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Operating for almost 30 years as a market leader, Architectural & Metal Systems specialise in aluminium extrusion, powder coating, fabrication, and sheet metal services.

AMS is Ireland's only independently owned manufacturer of extruded aluminium profiles. We supply a wide range of quality certified, thermally efficient, security windows and doors and also a number of commercial high performance curtain wall systems offering specialist extrusion systems to various industries globally.

Founded in 1990, AMS has grown exponentially. Located in Little Island, Cork, our facility has grown from 86,000 sq. ft. in 2001 to over 250,000 sq. ft. today. All our services are offered in-house, under one roof, meaning we can offer consistency in service, quality, colour and complete traceability. We offer unrivalled extrusion services with our 2 state-of-the-art extrusion facilities where we have the capacity to extrude over 16,000 tonnes per year.

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 can 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.

www.ams.ie

System Providers ▲

Windows, Doors, Curtain Walling ▲

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Painting Cutting, Sheet Metal



UK METALS COUNCIL & THE WORK WE DO

ALFED is one of eleven trade and learned bodies making up the UK Metals Council (UKMC).

UKMC's role is to represent the sector as a whole to government and act as a primary point of contact to the government (BEIS, DfE, the Environment Agency, DIT and others) on a wide range of issues. In total, UKMC's members represent over 11,000 businesses employing 250,000 people directly with a turnover of £33bn and GVA of over £10bn.

At the moment, UKMC is building a map of the UK supply chain to help identify and quantify strengths and gaps. UKMC's role is to work with government to support what's working well, highlight issues the sector faces and to help develop the opportunities those gaps represent.

UKMC has a number of cross-industry project groups with representatives from businesses within each of its member organisations. These work on a diverse range of issues: energy (not least the lack of a level playing field with continental and other competitors in terms of price), skills (where the current focus is ways of making the Apprenticeship Levy work better, and to ensure T-levels fully comprehend the needs of our sector as they are rolled out), innovation, research and development, the supply chain (as above) and, critically in the face of the climate emergency, the vital role of metals in the circular economy.

UKMC is always looking for industry representation to help support this work so if anyone reading this would like to get involved, please let us know through ALFED.



THE VOICE OF THE UK ALUMINIUM INDUSTRY

ALFED quarterly magazine offers you a great opportunity to promote your products and services to key decision makers and influencers within the aluminium industry in the UK.

SCHEDULE:

Issue 4 – 27 March 2020

Issue 5 – 29 May 2020

Issue 6 – 23 September 2020

Issue 7 – 10 December 2020

For more information please contact:

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ALUMINIUM NEWS

INSURANCE



The Environment Agency estimates that with proper flood preparation, most businesses can save 20 to 90 per cent on the cost of lost stock due to flooding.



Floods can sometimes be predictable. For example, charting the habitual swelling of the tides establishes typical water levels and indicates when coastal areas might be prone to flooding. However, more often than not, floods can arise without warning - rivers, lakes or the sea can overrun, swamp defences and surge through the surrounding areas.

The fickle nature of UK weather only exacerbates the unpredictability of floods, and with so many areas susceptible to flooding, one unexpected severe storm can trigger widespread, damaging floods. In England and Wales alone, more than 5 million properties - as many as 1 in 6 are at risk of flooding. One in 14 Scottish properties and 1 in 20 Northern Ireland

properties are also at risk. With these odds, there is a good chance that one of these properties at risk belongs to you.

Neglecting to prepare your property for possible flooding can sink your business. Stay afloat with solid preparation and a thorough flood plan.

Taurus Insurance Brokers take a very proactive approach to help businesses manage the various risks they are exposed to and help prevent such eventualities with various unique risk management tools and advice. If you would like to know more practical advice on how to prepare your business for flooding contact Taurus.

Tel: 0121 517 0436

Email: info@taurus-insurance.co.uk

WHAT IS AN EORI NUMBER AND WHO NEEDS ONE?

An economic operator registration and identification (EORI) number will be needed for UK businesses to be able to continue to trade with the EU after the UK leaves the EU.



If there is a no-deal Brexit

In the event that the UK leaves the EU without a deal, an EORI number that starts with GB will be needed to move goods in and out of the UK.

An EORI number is not needed if goods are only moved between Northern Ireland and Ireland. However, one is required for imports and exports that move directly between Ireland and Great Britain without going through Northern Ireland.

A business that already has an EORI number starting with GB can continue to use it. It will be 12 digits long and include the VAT number where the business is registered for VAT.

VAT-registered businesses

Where a business is registered for VAT, HMRC send out EORI numbers automatically. It is advisable to keep the letter and a separate note of the number.

Businesses not registered for VAT

Businesses that are not registered for VAT will not receive an EORI number automatically. They will therefore need

to apply for one if they wish to continue to trade with the EU post-Brexit. This is a simple process and can be done online on the Gov.uk website (see www.gov.uk/eori). Applicants will usually receive the number immediately; although it may take up to five working days if HMRC need to undertake more checks.

Forgotten or misplaced EORI numbers

A business which has lost or misplaced its EORI number can contact the EORI helpline online using the contact form on the Gov.uk website at www.gov.uk/eori.

EU EORI number

A business that wishes to trade with an EU country will also need an EU EORI number starting with the country code of the country that they wish to trade with. This should be obtained from the Customs authority of the EU country that the business will first trade with post Brexit.

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NEXT-GENERATION OES ANALYSIS FOR TOTAL ALUMINIUM CONTROL

There's never been a more demanding time for those in the metals industry.

Foundries are under increasing pressure to use scrap materials in the melt. Supply chains are getting more complex and perhaps less reliable. Legislation for trace elements is getting ever tougher. The result is that to be able to consistently produce a profitable, high quality product that meets all specifications and meets legislation, foundries and metals processing companies need to measure and control the materials entering and exiting their facilities. And that can be a problem.

To meet a materials specification, you must test for everything. And right now, current specifications are above what many mid-range optical emission spectrometers (OES) can cope with.

High end OES analysers are out of reach for many and can be unsuitable for a high-throughput production environment.

OE750: Designed for next level OES analysis

The OE750 is a ground-breaking piece of equipment from Hitachi High-Tech. It allows aluminium foundries to control levels of phosphorus, antimony and bismuth to very low limits in near eutectic and hypereutectic Al-Si alloys. The ability to control these, and other tramp and trace elements, ensures Al processing facilities have a higher level of control over optimising the melt structure.

It also provides comprehensive trace elements analysis to support the analysis of incoming materials for high-end aluminium machining and forming facilities.



These capabilities mean that, for the first time, aluminium foundries and metals processing facilities do not have to compromise performance for the sake of cost.

Find out more at hhtas.net/oe750

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ALUMINIUM FORUM

25-27 MAY 2020

Centre des congrès de Québec,
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FROM PILOT TO EVERYDAY

If you want to know what's happening in the world of digitalisation then look no further than the only aluminium conference in the world dedicated to Industry 4.0 and how it – and its related technologies – can aid and optimise the aluminium manufacturing process.

The Future Aluminium Forum will return on 25 – 27 May 2020!

Now in its third year, the Forum has established itself as the key event to show case studies, discuss optimisation through machine learning and examine robotics, automation and augmented reality across the value chain.

Join us to hear from experts on:

- The automated casthouse
- Data capturing and handling
- Cyber-security: Prevention and cure
- Implementation & challenges
- Industry 4.0 maintenance
- Additive manufacturing

To find out more and be part of the future, contact:

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IF YOU WANT TO TALK ABOUT MACHINING ALUMINIUM, ELUMATEC IS LISTENING

Hello, I'm Neil Parton and I'm proud to be MD of elumatec UK.



Our products are market leading and widely used by those working with aluminium. They're superbly engineered, adaptable and efficient, but it's our customer-focused approach that makes us stand out. Naturally, we want to thrive, but we want that for you too, and that's why we always put your needs first.

We've found that many people know the elumatec name, but believe our machinery is too pricey or that elumatec focuses on the German market. It couldn't be further from the truth. Our machinery is excellent value, we're real people, based in the UK, we listen, and we care. If you want to start a conversation, call me on +44 (0) 1908 580 800. In the meantime, here's a quick introduction to our business.

CNC MACHINING CENTRES

If you're machining aluminium profiles, we believe you'll have better control with elumatec. Our range of CNC machining centres is built to be better. When you're going through a checklist of what you need in a machine, you'll find every box is ticked. They're speedy, but the action is smooth. They're accurate, efficient and powerful, but they're frugal with the energy they consume. They're adaptable, but still ergonomically designed for a tidy footprint, a clean workspace and ease of use. And naturally, because we're elumatec, we've made sure you'll always be in control: the simplest setup, Windows software and intelligent TCP/IP connectivity. Think swift, versatile, efficient, economical, safe and easy to use.

SAWS & SMALL MACHINES

We believe that the smallest machinery can have the biggest impact. Saws might not be the biggest item on the shop floor, but one that's inaccurate, prone to breakdown, or that takes an age to set will have a huge impact on your productivity. If it's a piece of kit that eats consumables, that struggles with anything but the lightest of aluminium sections and has a noise output like a jet engine, it's time to look at elumatec's alternatives. We offer a complete suite of saws, routers and drills, everything from automated precision models equipped to handle the most delicate sections, to robust

manual workhorses that are built to last. A quieter, safer, more cost-effective and more productive operation can start with a small change.

SERVICE AND SPARE PARTS

Prevention is better than cure, but either way, we'll get you working. We'd love everyone who uses our machines to look after them the way we do. That's why we offer routine, preventative maintenance – affordable plans to keep your kit in tip-top condition. But this is the real world, so if there's an emergency and you need a hand, we'll be there. Our spares system is second to none, we keep a massive stock of original, wearing and replacement parts and our engineers will always give you a straight answer about your best options. We can audit machinery, upgrade or customise its features and train your team to truly understand your machinery's potential.

CONFIDENCE STARTS WITH ELUMATEC

High quality is about far more than a machine's appearance and construction. A high-quality machine is one that can improve the way your business performs. That's an important distinction because elumatec doesn't just believe in selling machinery. Our approach is about getting the perfect fit, improving your efficiency, making sure that production is cost-effective, and while being ideally suited to the needs of the aluminium sector now, our equipment is readily adaptable to cope with future changes.

I'm confident that we offer the best possible solutions, but I promise you this: you will always get an honest, straightforward and productive conversation with elumatec whether or not you are planning to invest.

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ALFED ALUMINIUM RECYCLING INDUSTRY WORKSHOP

Global consumption of mineral resources in the last 60 years exceeds the total consumption of all previous human history. The population of the earth by 2050 will be 9.5 billion, people to support this population we will need nine planets of natural resources.



The ever-increasing innovative applications of aluminium in automotive, architecture and now packaging are driving demand for this unique metal. Extrapolated demand by year 2030 will be 160 million tons. Bauxite reserves are estimated at 40 to 75 billion tons, which at 160 million tons primary aluminium production will last between 62 and 117 years. Sustained continued use of aluminium is fundamentally dependent on recycling. Today the UK recycles 800,000 tons of aluminium annually which will increase to 1,600,000 tons by 2030. Secondary aluminium production through recycling from 100% scrap resource provides the lowest embedded carbon materials solution matching by metal volume if not bettering steel.

ALFED in conjunction with its knowledge partner the Council for Aluminium in Building (CAB) hosted in University of Wolverhampton Telford Campus an Aluminium Recycling Industry Workshop. The purpose of the event was to raise awareness and highlight the economic and environmental possibilities of aluminium recycling, exploring the new technologies of scrap sorting and introducing developments in recycling and in recycled alloys.

This exciting workshop with over 75 delegates and guests was chaired by Professor Michael Stacey of Michael Stacey Architects who set the scene with examples and applications. Mark Priest of European Metal Recycling gave an overview of metal recycling industry and how it is leading the global movement.

Justin Furness, Technical Director of CAB, outlined aluminium closed loop recycling in the UK construction sector, CAB Pilot Scheme.

The recycling theme was expanded into Europe by Patrick Wortner Director of "People Planet Profit UG & AUF e.V." who outlined the closed loop recycling of aluminium windows, doors and facades in Germany. The theme was then brought back to leadership of the UK by Jane Thornback, Sustainability Policy Advisor of the Construction Products Association, who explained in detail the construction resources & waste and the UK Policy Framework. Matt Mellors, Project Manager, Environmental Technologies & Resource Efficiency Support Service (EnTRESS), of the University of Wolverhampton laid out the practicality of "Implementing Circular Economy principles" and the funding support available.

Completing the holistic industry approach and expanding into the research being led by the automotive industry Geoff Scamans, Chief Scientific Officer at Innoval Technology, supported by Gaelle Guillaume of Jaguar Land Rover presented the REALITY Aluminium Recycling Project.

Truly an eye opening and highly educating event which not only highlighted the opportunities of recycling facing the aluminium industry but also reality of the global threats.



ALUMINIUM &
METALS SECTOR



METAL FINISHERS



METAL RECYCLING
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MANUFACTURING



FLEET & HAULAGE



SME SECTOR



STOCKHOLDERS

Taurus Insurance Brokers are Aluminium Federation's (ALFED) exclusive insurance partners.

Made-up of a family that have worked within the industry for over 40 years, Taurus have a great understanding of the aluminium and metals sector, metal finishing industry and associated producers, extruders, recyclers and stockholders.

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