



British Glass

**End of year review
2018-19**

Looking back at an exciting year

Welcome to the review of a year which has seen British Glass work closely with its members to face many challenges, show many achievements, and plan for an exciting future!

At the time of writing we face a great deal of uncertainty in the manufacturing world as we wait to see the implications of Brexit for the glass sector. We are in constant contact with Government.

We are also working on behalf of members to help ensure that a pragmatic approach is taken on the key debate on the proposed Scottish Deposit Return Scheme and the Westminster Resource and Waste Strategy. Collaborative working with members and Government decision makers fundamentally underpins our approach.

And I am delighted to say that the visionary Glass Futures project is making pleasing progress. This is something the industry has needed for a long time – the capacity to explore new ideas in manufacturing, enabling members to trial new ideas in a risk-free environment.

Add to that the launch of the sector's new apprenticeship scheme which will help provide a source of talented and qualified new blood, and I look forward to a future for glass which ensures its place among the leading industries of the 21st century.



Dave Dalton, Chief Executive, British Glass

New President 'proud and honoured'

Saint-Gobain Glass UK's Managing Director Steve Severs has been appointed the new president of British Glass, beginning his two-year term on 1 January 2019 and succeeding Encirc's Adrian Curry.

Steve has been Managing Director at Saint-Gobain since 2013 and has been a member of the board at British Glass for a number of years. He said: "I am proud and honoured to take up the role as President of British Glass and to continue to promote the exceptional contribution of the glass industry to the UK manufacturing scene, and help represent the industry at national level in order to further promote its success."



Adrian Curry said: "I have thoroughly enjoyed my time as president over the last two years.

"It's been a very rewarding experience working alongside a progressive organisation such as British Glass and I know it will continue to go from strength to strength with Steve at the helm. I wish Steve all the best in the role."

British Glass CEO Dave Dalton said: "We are delighted to have Steve as our new President. His dedication to the glass industry is exemplary, and his character and commitment will help us guide our industry's needs.

"I would also like to sincerely thank Adrian for his tireless work and dedication to the role. He has been a fantastic support to me and the whole team at British Glass and a real inspiration."

Steve Severs is pictured left, Adrian Curry, right

Glass Futures vision moves closer



Glass industry, academics, and regeneration experts met to shape Glass Futures

Our exciting vision for a world-leading innovation, technology, training and research centre connecting industry and academia gets ever closer to becoming a reality, thanks to close partnership working and significant funding.

'Glass Futures' is set to be based on the former United Glass site in St Helens and in March an important step came when a large number of representatives of the UK and international glass industry, academics, St Helens Council and Liverpool City Region met to discuss and shape how the proposed facility should be used.

The Glass Futures project has won £50,000 backing from the Strength in Places fund to build on world-class research in the Northern Powerhouse. Further substantial funding is expected for research into new, efficient

technologies for reducing carbon emissions in glass melting. A pilot furnace will be commissioned and built to run trials with alternative fuels, and produce recommendations on fuel switching for individual glass manufacturing sites. This furnace would be able to produce 30 tonnes of glass a day for research and production, cutting development time and the risks for the next generation of glassmakers and entrepreneurs.

The site could be up and running within a year from its commissioning, with pilot furnace trials taking place from the end of 2020. Glass Technology Services is currently managing the project with guidance from partners including universities and companies across the glass sector.

For more information on the Glass Futures project, please visit www.glass-futures.org

Laying foundations for skills of future

British Glass and its members have laid the foundations for an exciting new glass apprenticeship course. The scheme, due to be provided by Wakefield College, will offer Level Three training for young operatives.

Yvette Cooper, the Normanton, Pontefract and Castleford MP, said: "We know we need young people coming into the glass industry, getting those opportunities and getting that training."



Dave Dalton, British Glass; MP Yvette Cooper; Graham Sherwin and Joanne Taylor, Wakefield College; Sandy Needham, West & North Yorkshire Chamber of Commerce.

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Constructive talks with Government

The Government's Resource and Waste Strategy (published December 2018) presents ambitions for the future of resource management. These very much mirror the UK glass industry's ambitions: increased recycling, decreased use of raw materials, increased public awareness and engagement, lower energy use and emissions, and boosted productivity. The strategy reflects the key issues we as the UK glass industry have been discussing with Government over the last few years.

The accompanying consultations (published February 2019) offer the glass container sector the opportunity to demonstrate the innovation and investment it has made and the forward and innovative thinking currently taking place to maximise glass recovery.

British Glass has secured the ear of Government by demonstrating its desire to work in partnership to find pragmatic solutions to the issues we all face. That is not to say we do not still have a job of work to do in shaping the ideas into workable solutions, but the constructive dialogue we enjoy with Government has formed a firm foundation for the future.

Thinking about a world after Brexit

Without wishing to get embroiled in the politics behind Brexit, British Glass continues to engage across Whitehall to try to address the question of 'What happens next'. Regardless of the kind of Brexit secured, intervention will be needed to ensure UK industry can continue to trade internationally on an equal footing.

We are active members of the Manufacturing Trade Remedies Alliance, and we deploy a mix of negotiation with Government Ministers and officials, and lobbying of MPs and the Opposition. In this way we have ensured the Trade Remedies Authority will have the necessary powers and competence to impose tariffs where unfair trading can be demonstrated and enforce anti-dumping

measures once the UK officially leaves the EU. The Alliance is also actively lobbying against 'zero level tariffs' in the event of a no-deal Brexit.

Future trade deal negotiations will require robust data on manufacturing goods and this includes identifying the country of origin. British Glass Chief Executive Dave Dalton sits on the BEIS Ministerial lead group discussing the future regime underpinning 'Rules of Origin' regulations for imported goods.

Rules of Origin regulations will aim to ensure that importers are not able to circumvent any final trade agreement which restricts imports of specific goods.

Giving BEIS insight into glass sector

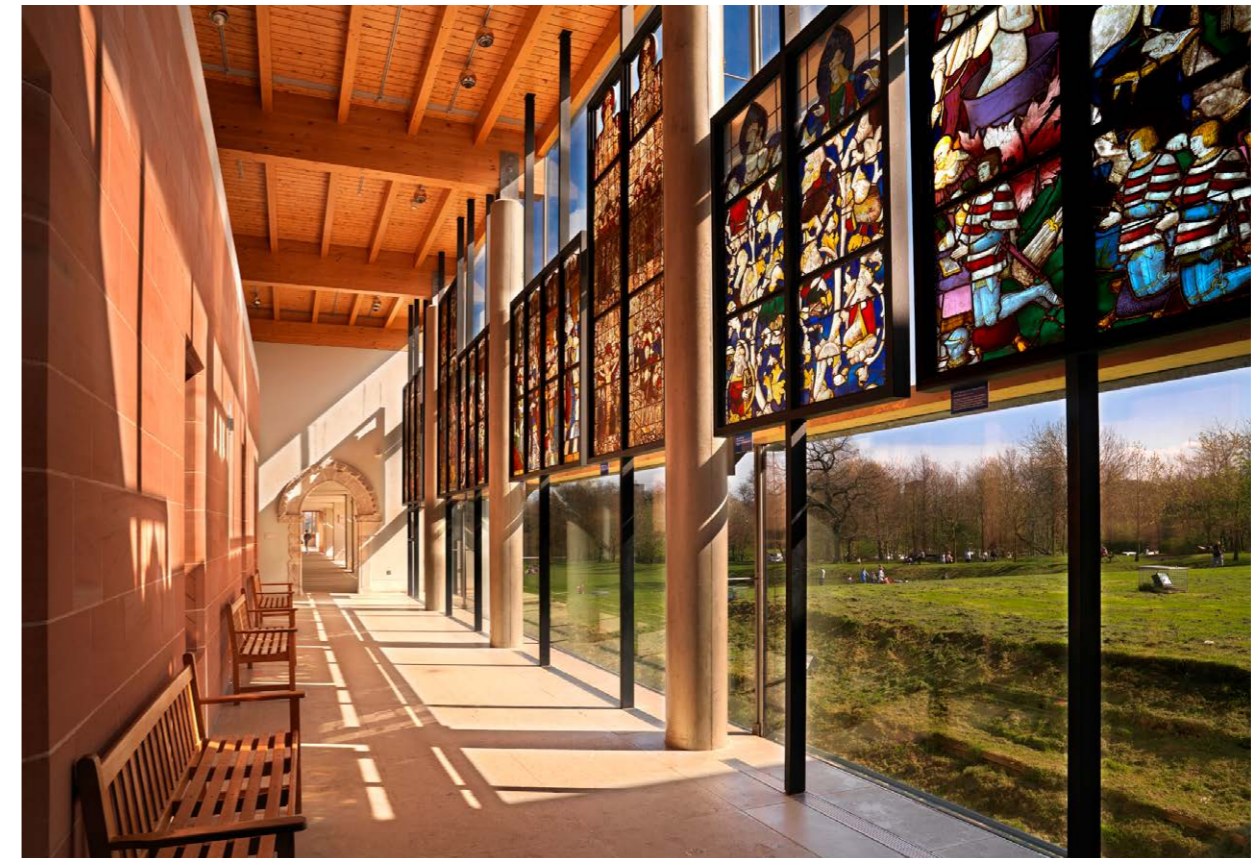
British Glass continually strives to ensure that the glass sector has a strong voice and can communicate the challenges facing the industry. So we were delighted to facilitate a visit from BEIS to member and flat glass manufacturer Saint-Gobain UK, following previous BEIS tours of Allied Glass, Pilkington UK and Encirc. The visits give BEIS officials insight into the industry and allow British Glass and the host company a valuable opportunity for discussions on a range of issues.



Opinion formers: Close the Loop

We believe that it is important for our members to be kept abreast of the latest industry ideas and technologies and talk to a wide range of key opinion formers. So we will be one of the key trade associations to exhibit at the launch of The Recycling Event in July at the Ricoh Arena in Coventry, along with a number of trade associations from across the wider recycling sector.

We will also be promoting the industry and the cause of glass at the RWM exhibition at the NEC in September. We'd love to see any of our members there and chat to them at either or both events!



How we work with construction

Work on cross-sector construction waste continues through the FISSAC project, including an in-depth look at flat glass recycling.

In the past year links have been built throughout the construction supply chain to understand the market better and identify the best route to increase post-consumer glass recycling. A consistent theme identified is a lack of knowledge of glass recycling processes so we have spoken at international and national conferences to architects, academics and construction engineers.

A key partner has been the engineering consultancy firm Arup and currently British Glass is collaborating on an educational case study video that will document the refurbishment of 35,000m² of double glazing at the Burrell Collection in Glasgow (seen above) being recycled back to re-melt.

This video will show best practice for flat glass recycling and should generate significant discussion in the wider construction sector.

Showcasing the very best in the glass world at Glass Focus

Our annual awards ceremony and dinner at the Millennium Gallery, Sheffield, brought together members from across the glass sector to showcase the very best that our industry has to offer.

Well-deserved awards were made for achievements in design, health and safety, innovation, sustainability and investment in staff and apprentices. Full details and a photo gallery are at www.britglass.org.uk/glass-focus-2018

Earlier in the day, the Glass Focus conference shone a light on Industry 4.0 and the future of the glass sector. Delegates saw a number of presentations on a range of topics including how virtual reality can be used in glass manufacturing and if resource efficiency and digital manufacturing can help with productivity in the glass industry. The day concluded with a panel discussion from CEO Dave Dalton, CTO at Siemens Alan Norbury, and CPI's Graham Hillier on questions surrounding how the glass sector can capitalise on Industry 4.0.

'Company of the Year', a special British Glass award, went to Nippon Electric Glass Fiber UK, which had intrigued the judges with its first-ever entry in the awards. Nippon Electric Glass Fiber UK, a Japanese-owned company which makes glass fibre used in wind turbines, challenged all employees to submit one report a month of a near miss, an unsafe act, or an unsafe condition. The company says it saw an excellent response.

Dave Dalton added: "I was very impressed with the company's work and its ethos. Nippon Electric Glass Fiber UK strives to build a brighter future for the world by uncovering the unlimited possibilities of glass for more advanced creative manufacturing. The entry is a clear example of its consistent drive to improve health and safety conditions."

Thanks are due to the Glass Focus Award sponsors: Glass Futures, Glass Technology Services, The Worshipful Company of Glass Sellers, Arco, Glass Worldwide, and awesome.



'Overwhelmed with joy'



"I was surprised to win this award and I was overwhelmed with joy. It has made me want to work even harder and continue my progression. This award shows what dedication and determination can provide and I hope that it also motivates other apprentices."

Apprentice of the Year, Gareth Owen, O-I

And the sparkling winners were all there up on the stage collecting their awards...



Design of the Year
— O-I



Sustainable Practice
— Ardagh Group



Innovative Solution
— Pilkington UK



Health and Safety Action
— Ardagh Group



Strengthening Business through People
— Saint-Gobain Glass UK



British Glass' Company of the Year
— Nippon Electric Glass Fiber UK

Work on decarbonisation 'Roadmap'

British Glass is moving forward on actions agreed under the decarbonisation action plan, our 'Roadmap to 2050'. A working group has been formed to advise and work on areas of interest and continue the good progress that has already been made in many of the areas. The Senior Executive Committee has chosen four main areas of focus for the coming year:

- Increasing recycling rates
- Encouraging greater uptake of energy efficiency through revision of building regulations
- Communication strategy to promote the environmental benefits of glass
- Supporting decisions for low carbon choices

To take these forward, British Glass has developed a flat glass strategy, and a wider communications and political strategy is planned to be in place for the next financial year.

Future energy options for melting

We welcomed an impressive array of speakers from across the industry to our 'Future energy options for glass melting' seminar. They included Olu Fasan of the Department for Business, Energy and Industrial Strategy (BEIS), who outlined the Government's £315million 'Innovation' programme designed to accelerate the development of clean energy technologies.

Experts also spoke on the melting technology the glass industry will need to adapt in order to meet the 2050 decarbonisation goal.



Jenni Richards, Senior Environment, Health and Safety Adviser, said: "Energy is a fundamentally important component of our industry and this day inspired some very thoughtful debate."

Ofgem's charging review

Ofgem plans to change the way it charges users for 'residual' distribution and transmission electricity charges through an overhaul of the TRIAD system where users are charged annual fees in proportion with their usage during the busiest times of the year. British Glass worked with Ofgem, BEIS, members and wider industry to understand the impact on the glass sector and was able to get the most costly of Ofgem's four proposals dropped.

Widening reliefs for electricity costs

Current reliefs for passed-through costs from the decarbonisation of the electricity market are assessed by business and the glass sector is split, with some members effectively seeing a much lower electricity price than others. British Glass has been working hard to change the eligibility so that all members can receive the reliefs.

Helpful guides for working with glass

British Glass is publishing easy-to-read guides for those working in the glass packaging and retail sector. The first two are 'Focusing on recycled content in glass packaging' and 'Maximising the recyclability of glass packaging', and have been well received.

Further guides are set to be released looking at glass container design, performance, sparkling beverages and right weighting glass containers. The first two guides are available at:

www.britglass.org.uk/knowledge-base/resources-and-publications



Health and safety: looking forward

Now in its third year, the British Glass 'health and safety forward' scheme unites members around the common goal of health and safety improvement. Participating members submit annual data which allows the Health and Safety Committee to design an annual action plan targeted at the help members need most. The scheme also takes direction from our relationship with the Health and Safety Executive and dovetails with its health strategy and manufacturing plans.

This year our training has focused on behavioural safety and machine safety; British Glass has issued a new IS Machine Guidance Document, replacing the previous Code of Practice, which focuses on robust health and safety systems to achieve improvement.

Safe packaging and transport

A new Code of Practice for the safe packaging and transport of empty glass containers has been released by British Glass for stakeholders including manufacturers, packer fillers, merchants, equipment suppliers and logistics companies.

The new guidance document has been developed in consultation with the Health and Safety and technical committee, and supersedes the TEC 11 document, which previously gave advice on the same subject.

Laying foundations for skills of future

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Ms Cooper added: "So it's brilliant to see the work that British Glass and Wakefield College is doing with our local glass manufacturers to try and get these opportunities in place."

The scheme was discussed at an event at the college's Castleford Campus with key representatives from the glass industry in May.

If you are interested in further details on the Apprenticeship please contact m.grattidge@britglass.co.uk

Popular training events for the sector

We continue to support the glass industry and its wider supply chain with a range of popular training events, including our glass-specific Institution of Occupational Safety and Health (IOSH) working and managing safely courses.

Alongside this, in partnership with Glass Technology Services, we have delivered three Glass Appreciation courses as part of an extended calendar of events. This is a day's course suitable for beginners in the glass industry and those who want to reinforce their knowledge.

Our expert speakers highlight the glass manufacturing process with a range of key

presentations and a tour of the Glass Technology Services laboratories and workshops.

The courses have seen attendance from members, suppliers, customers and government, with a number of courses scheduled for the rest of 2019.

On the PUWER course one delegate said: "It was very informative and relevant to my role. I am looking forward to implementing this."

Members, suppliers, customers and government representatives have attended our courses. Details of the 2019 series: www.britglass.org.uk/knowledge-base/events-and-training

Explaining challenges of air quality

This year saw the launch of the Government's Clean Air Strategy on reducing the emissions of five key pollutants (PM_{2.5}, NO_x, SO₂, NH₃ and NMVOC). During the consultation phase, British Glass demonstrated that since 2006, through significant investment, the industry has reduced its particulate emissions by 85%.

Further improvements to furnaces and introduction of abatement also resulted in a 27% reduction in NO_x emissions. Additional improvements over the next five years are expected to result in a further 21% reduction in NO_x emissions.

Although the sector SO₂ emissions have reduced significantly, further reductions remain a challenge. By working with the Environment Agency this year, we have been able to explain the difficulties in reducing SO_x emissions whilst continuing to increase cullet use, recycle filter dust and improve energy efficiency.

This work resulted in an extension to the two-year derogation for most container sites in the 2016 update to environmental permits. British Glass is now working with members on a cost benefit analysis for modifying abatement options.

What you, our members asked us:

British Glass has the UK's only dedicated library on glass technology, from raw materials to end product. It includes scientific journals, standards and regulations, conference proceedings, factory data, trade publications and access to patent searches. In the last year, we have provided valuable information for members including access to standards documents from the UK, EU, USA and China worth £9,000.

We provide a daily information service for members, sometimes helping with more obscure queries. All but one of the requests listed here — just some from 400 — had a happy outcome.

- A glass toilet with matching designer glass bath
- A glass slipper for a TV company making Cinderella — within 24 hours
- A 60 x 30ft glass bottle to house a restaurant
- A bottle wholesaler in Dallas
- A glass grand piano for a luxury liner
- A 10ft glass bird

Can we help you? Email information@britglass.co.uk



Telling families why glass is special

Inspiring work with children, young people, and their families has promoted the cause of glass and recycling across the UK through the member-funded 'Friends of Glass' promotional drive. Education projects, creating a wishlist to protect the ocean, and student social media messages are just a few aspects of this work.

National Marine Aquarium

Friends of Glass has partnered with the National Marine Aquarium (NMA) in Plymouth. seen above. The NMA runs the largest Aquarium in the UK and is dedicated to education, conservation and research into the ocean environment (an activity is seen above). It welcomes over 250,000 visitors a year and delivers curriculum-based learning to 30,000 pupils annually in the visitor centre and its national outreach hubs. The NMA and Friends of Glass jointly ran two successful campaigns — 'Cheers to the Ocean' and 'Wishes for the Ocean' — in 2018 which encouraged hundreds of young people and their families to recycle and help protect the oceans.

Find out more: www.national-aquarium.co.uk/education/supporting-friends-of-glass-at-the-aquarium

Student Switch Off

The Student Switch Off campaign at York, Cardiff, and Oxford Universities with social media channels, quizzes and competitions drove the recycling message to first-year students in their first time living away from home.

Glass Guardians

The Glass Guardians campaign with Friends of Glass has been a resounding success with fun and engaging curriculum-related activities on the importance of the recyclability of glass reaching 97,000 pupils aged 7-11 in primary schools across the UK. Work is now underway to extend the popular project to 225,000 pupils and their parents.

Find out more: www.nationalschoolspartnership.com/initiatives/glass-guardians



Mercure St Paul's Hotel
Sheffield
21.11.2019

Join us this year for a full daytime programme of speakers, networking and discussion followed by a gala awards dinner – all hosted at the Mercure St Paul's Hotel in Sheffield.

Subscribe to be the first to hear speaker, ticket and awards announcements: www.britglass.org.uk/sign-up



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