

WELCOME TO EU GLASS INDUSTRIES NEWS



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EU COMMUNITY NEWS

NEW EU LEGISLATION

Commission Notice

DG SANTE Notice to Stakeholders on the WITHDRAWAL OF THE UNITED KINGDOM AND EU FOOD LAW AND EU RULES ON QUALITY SCHEMES

Preparing for the withdrawal is not just a matter for EU and national authorities but also for private parties. In view of the uncertainties surrounding the ratification of the Withdrawal Agreement, all interested parties, and especially economic operators, are reminded of legal repercussions, which need to be considered when the United Kingdom becomes a third country. Subject to the transition period provided for in the draft Withdrawal Agreement, as of the withdrawal date, EU food law and EU rules on quality schemes no longer apply to the United Kingdom. This has consequences detailed in the following notice: https://ec.europa.eu/info/sites/info/files/eu_food_law_en.pdf.

21821/Notice – 2019.03.20

TRADE & INNOVATION POLICIES

EU Trade Defence Policy

In its **annual report** on its trade defence policy, the Commission reviewed a year marked by several major challenges, including the imposition of 25% tariff sanctions on steel by the United States.

The 2018 report describes the EU's anti-dumping, subsidy and safeguard activities, but also the trade defence activities of non-Member States against the Union.

Out of 14 new cases handled during the year, the institution applied measures in six cases.

All these measures, the Commission points out, are largely aimed at China.

“Open economies need effective tools to enforce fair competition, especially at a time where some countries don't want to play by the rules”, said Trade Commissioner Cecilia Malmström.

In total, the European measures in force at the end of 2018 would effectively protect 320,000 direct industrial jobs, bringing in more than €1.5 billion to the Community budget in duties collected.

2018 was also the year of implementation of the new EU Trade Defence Instruments Regulation, applied from 8 June, allowing, where appropriate, higher customs duties to be imposed, in order to better protect EU producers against unfair competition.

The report also proposes an assessment by the Juncker Commission on trade defence. *“There was probably no period that was more challenging than the one between 2014 and 2019”*, the institution notes, highlighting in particular the problem of global overcapacity in steel production, which has led to an increasing demand for defence measures.

Between November 2014 and December 2018, 170 cases were raised and 95 measures applied, extended or renewed, preserving more than 124,000 jobs.

However, the Commission points out that the EU's duties are lower than those of its trading partners under the *‘lesser duty rule’*, taking as an example its steel duties, which range from 29% to 45%, while the corresponding average applied by the United States is 54% to 87%.

In February, the WTO warned of a slowdown in world trade in the first quarter of 2019; *“Policy makers should be on guard for a sharper slowdown if current trade tensions remain unresolved. It is critical for governments to work through their differences and show restraint”*, said its Director General, Roberto Azevêdo.

See the report: http://trade.ec.europa.eu/doclib/docs/2019/march/tradoc_157810.pdf
and its annex: http://trade.ec.europa.eu/doclib/docs/2019/march/tradoc_157811.pdf

21822/Press Release – 2019.03.29

Market Access for EU Exporters to the UK in Case of Hard Brexit

The European Commission has included in its Market Access Database detailed information on the rules that the UK would apply on its imports from the EU in the event of a hard Brexit. It is based on information made publicly available by the United Kingdom authorities.

This is a part of the Commission’s efforts to help industry be prepared in case the United Kingdom leaves the European Union without a negotiated deal.

The Market Access Database provides detailed information on duties and taxes that apply to exports to a given country, as well as on import procedures and formalities that must be accomplished for customs clearance. The database contains information for 121 countries, and as of today, it also provides the same level of information for exports to the UK as for any other EU trade partners such as the US or China.

More info at: <http://madb.europa.eu/madb/indexPubli.htm>

21823/Press Release – 2019.04.08

EU/Trade Negotiations State of Play

- A Civil Society Dialogue meeting took place on 4 April 2019, following the recent rounds of FTA negotiations with **Australia** (25-29 March in Canberra) and **New Zealand** (8-22 February in Brussels). The Civil Society Dialogue included an exchange of views on the trade negotiations, as well as the Sustainability Impact Assessment draft inception report.

- The seventh round of negotiations with **Indonesia**, that took place in Brussels from 11 to 15 March, brought about good progress across the board, particularly on the chapters on sanitary and phyto-sanitary measures, rules of origin and investment. The chapters on trade remedies and customs are now close to completion at technical level. The next round will be held before the summer in Indonesia.
- The latest round of negotiations for a trade agreement between the EU and **Mercosur** took place from 11 to 15 March in Buenos Aires, Argentina, at experts and chief negotiators level. The negotiations covered trade in goods, specific rules applicable to wines and spirits, rules of origin, government procurement, intellectual property including geographical indications, rules in respect of state-owned enterprises and subsidies.

21824/Press Release – 2019.04.25

EU / China Summit

Economic and trade issues were at the heart of the 21st EU-China Summit on 9 April, reflecting their importance in the relationship between the two economic powers. The declaration, which was achieved after arduous discussions, as acknowledged by the leaders, is not lacking in ambition. It remains to be seen whether this will be followed by action.

At the multilateral level, first of all, both sides agreed to *"intensify the discussions with the aim of strengthening international rules on industrial subsidies"*. According to President Tusk, this is a *"breakthrough" in that, "for the first time, China has engaged with Europe on this key element of WTO reform"*.

Another major grievance of foreign companies regarding access to Chinese markets, explicitly mentioned in the joint statement, is that both parties *"agree that there should not be forced transfer of technology."*

As for the bilateral level, Chinese and Europeans recalled the terms of their common timetable, which were included in the declaration. Chinese Prime Minister Li Keqiang has thus promised *"decisive progress"* in the negotiations on a global investment agreement by the end of 2019, with a view to concluding them in 2020. A consensus would also have been identified to close the agreement on geographical indications before the end of 2019.

Chinese President Mr Li said the Chinese government *"was determined to broaden the country's openness"* because this has enabled its economic development. He promised that Beijing would soon reduce the list of sectors closed to foreign investors in order to ensure *"fair"* treatment for foreign investors.

Both sides also reiterated their respective commitments regarding the **deployment of 5G**. This corresponds, for the EU, not to exclude Chinese companies such as *Huawei* from the new networks, and for the Chinese government, not to ask such companies to provide information under the 2017 Intelligence Law.

The joint statement refers to an "*open, secure, stable, accessible and peaceful information and communication technology (ICT) environment*", before referring to the international framework and, in particular, the Charter of the United Nations.

The EU and China also underlined their strong commitment to **implement the Paris Climate Agreement** and the Montreal Protocol on Substances that Deplete the Ozone Layer. Given the urgency of the climate action required both at national and international level, they committed themselves to contribute effectively to an effective global response to the threat of climate change and to intensify their cooperation on the basis of the July 2018 Joint Declaration on Climate and Clean Energy.

Both sides stress the importance of carbon pricing and reform of fossil fuel subsidies in this regard.

Europeans and Chinese have decided to strengthen their cooperation on green finance to mobilise private capital flows towards a more environmentally sustainable economy. They pledged to cooperate in the success of the UN summits on sustainable development goals and climate action in September in New York.

At the bilateral level, both sides agreed to increase their exchanges on international development cooperation and to explore cooperation with other partner countries to work together towards the implementation of the 2030 Agenda.

The EU and China want to show determination on energy transition and take a stronger leadership role on environmental issues on the international agenda. They recognised the importance of cooperation in addressing global environmental challenges - including the fight against pollution and marine litter - and wish to deepen their cooperation in preserving biodiversity, combating illegal trade in protected species and sustainable forest management.

The joint declaration also addresses **human rights**, a subject of tension between the EU and China. The text reaffirms that "*all human rights are universal, indivisible, interdependent and interrelated*". In front of the press, Mr Li, as well as the President of the European Council, Donald Tusk, announced that the regular EU-China Human Rights Dialogue will continue, with the European representative reiterating the EU's concerns about human rights in China. The Chinese Prime Minister called for the defence of multilateralism, international law and the United Nations Charter.

Chinese and Europeans therefore reaffirmed "*their intention to contribute together to international peace and stability through intensified dialogue and cooperation and in accordance with international law*".

On the South China Sea, "*China and the EU call on all parties concerned to engage in dialogue, resolve disputes peacefully and refrain from any action that could increase tensions*", the statement said, while the Permanent Court of Arbitration in The Hague ruled in July 2016 that China did not have "*historical rights*" over the majority of the strategic waters of this sea.

In the margins of the Summit, the EU and China signed several agreements: a Memorandum of Understanding on a dialogue in the field of the State aid control regime and the fair competition review system, an agreement on the mandate of the EU-China competition policy dialogue, a joint statement on the implementation of EU-China

energy cooperation and the mandate for a joint study to identify the most sustainable rail transport corridors between Europe and China.

21825/Press Release – 2019.04.09

ENVIRONMENT & ENERGY

Emissions Trading System: Iceland, Liechtenstein and Norway To Start Auctions On the Common Auction Platform Soon

The EEA EFTA states – Iceland, Liechtenstein and Norway – participating in the EU Emissions Trading System (EU ETS) will soon be able to auction emission allowances on the common auction platform. With the formal requirements now cleared, the European Energy Exchange (EEX) will publish the corresponding amendment to the auction calendar shortly.

Iceland, Liechtenstein and Norway (EEA EFTA states) participate in the EU Emissions Trading System and consequently have a share of allowances since 2013 to be auctioned. They have chosen to auction their allowances together with those of the 25 Member States participating in the common auction platform, rather than organise separate auctions.

However, until end 2018 they were not able to auction their allowances as the EEA Agreement had to be amended to allow them to participate in the Joint Procurement Agreement for the common auction platform.

While the formal requirements for auctioning are now fulfilled, some practical arrangements still need to be completed. Accordingly, the EEA EFTA states are expected to start to auction allowances on the common auction platform in June.

The EEX will shortly publish a revised auction calendar including the auction volumes for the EEA EFTA states. The auction volume for the calendar years 2013–2018 yet to be auctioned will be included in the auction calendars for 2019 and 2020.

21826/Press Release – 2019.04.23

Energy Union

The fourth report on the State of the Energy Union, adopted on 9 April, shows that the Commission has fully delivered on its vision of an Energy Union strategy guaranteeing accessible, affordable, secure, competitive and sustainable energy for all Europeans. Europe is already a global leader in fighting climate change. European policies implemented over the last five years in all policy areas have put the EU on the right track to fully embrace the clean energy transition, seizing the economic opportunities that it offers, creating growth and jobs and a healthier environment for consumers.

Beyond modernising European energy and climate policy, the Energy Union boosts the clean energy transition of the European economy in key sectors, in line with our commitments under the Paris Agreement, while ensuring a socially fair transition. Building a resilient Energy Union with a forward-looking climate and energy policy has been one of the political priorities of the Juncker Commission. Today we take stock of the successful implementation of what was but a vision in 2014 of a unified, interconnected, secure and sustainable Energy Union. The report is accompanied by two documents showing progress made in renewable energy and energy efficiency. In parallel the Commission is also putting forward a report on the implementation of the strategic action plan on batteries and a communication for more efficient and democratic decision making in EU energy and climate policy.



The Energy Union has strengthened the internal energy market and increased the EU's energy security by investing into new smart infrastructure (including, cross-border), providing a new state-of-the-art market design and introducing a cooperation mechanism between the Member States based on solidarity to respond to potential crises in a more effective and efficient manner.

As the Commission has recently set out in its Communication "A Clean Planet for All", the energy transition requires a comprehensive economic and societal transformation, engaging all sectors of the economy and society to achieve the transition to climate neutrality by 2050. The Energy Union framework puts Europe on the right path to become a prosperous, modern, competitive and climate neutral economy.

A second Communication calls for a strengthening of the democratic accountability of the decision-making process under the Euratom treaty. The European Commission will establish a High-Level Group of Experts to assess the state of play of the Euratom Treaty with a view to considering how, on the basis of the current Treaty, its democratic accountability could be improved.

In the same communication, the Commission asks the European Parliament and the Council to reflect on how energy taxation could better contribute to the EU's energy and climate policy objectives, and how a move to qualified majority voting (QMV) decision-making amongst Member States could help to unlock progress in this area.

Waste Analysis

In absence of an analysis of hazardousness of a waste, its professional holder must classify it as a hazardous waste.

The judges of the Court of Justice of the European Union (CJEU) ruled on 28 March in Joined Cases C-487/17, C-488/17 and C-489/17 that if it is impossible to analyse the hazardousness of a waste, the professional holder of such a waste must classify it as dangerous under the precautionary principle.

Waste treatment professionals are subject to criminal proceedings in Italy for offences related to the treatment of hazardous waste. This is because they assigned codes for non-hazardous waste to waste that could be classified as hazardous or non-hazardous on the basis of non-exhaustive analyses and treated it in landfills for non-hazardous waste.

When this dispute was referred to it, the Italian Court of Cassation referred the matter to the CJEU for a preliminary ruling in order to shed light on the matter. In essence, the Italian judges are asking the Court of Luxembourg whether it should be classified as dangerous in accordance with the precautionary principle in the event that there is doubt as to the hazardousness of a waste.

In their judgement, the CJUE judges noted that Directive 2008/98/EC on waste subjects the management of hazardous waste to specific procedures. Indeed, the owner of waste that can fall into two categories must collect information to establish whether it is hazardous or not and, therefore, subject it to this or that procedure.

The Court further notes that the directive balances the precautionary principle on the one hand and economic data on the other. Thus, the owner of waste whose composition is not known a priori is not required to look for the presence of all hazardous substances, but only those that can reasonably be found in this type of waste. And once this information is collected, the waste holder must carry out an assessment of the potential hazardous properties of the waste.

However, the CJEU notes that the methods for doing so have not been harmonised at EU level and methods applied at national level can be used, subject to their international recognition.

Finally, the judges considered that, if the holder of the waste cannot determine its dangerousness, as this impossibility should not be the result of his behaviour, the precautionary principle should apply and the waste should be considered dangerous.

Text of the judgment:

<http://curia.europa.eu/juris/document/document.jsf?text=&docid=212327&pageIndex=0&doclang=EN&mode=req&dir=&occ=first&part=1&cid=7034729>

SOCIAL ISSUES

IndustriAll Europe Launches Manifesto for European Elections

The industrial workers' union (*IndustriAll*) is launching its campaign for the European elections on 2nd April with a manifesto, the main objective of which is to put the worker right back at the centre of European policies. “*There’s only one solution to save it [the European union]: a real social Europe*”, said Luc Triangle, Secretary General of *IndustriAll*, who blasted the past decade of imposed austerity. The manifesto calls on future legislators to take action to: - support permanent contracts and increase wages; - rapidly implement the European pillar of social rights; - strengthen negotiations between social partners in Europe; - promote “Made in Europe” products; - adopt ambitious policies that take into account both social and environmental urgent issues.

To view the report: https://news.industriall-europe.eu/content/documents/upload/2019/3/636880768603030433_Manifesto-2019-EN.pdf

21829/Press Release – 2019.04.01

Assessment of Employment and Social Affairs DG’s End of Term

As the end of the mandate approaches, the Commissioner for Employment and Social Affairs, Marianne Thyssen, gave a brief assessment of her work on 9 April, on the sidelines of the conference on the future of work, discussing in particular the virtues and limits of soft law, before addressing the medium- and long-term challenges in the social field, whether on the profound transformations of working conditions in the digital age or the risks of British social dumping due to *Brexit*.

Regarding soft law, Marianne Thyssen doesn’t believe that it is enough or working well. For some Member States, proposed legislation on work like balance and transparent and predictable working conditions can appear as hard law.

The pillar is not to be implemented in all its dimensions within 2 or 3 years. Member states committed to that pillar and they make explicitly reference to it.

Regarding the coordination of social security systems, the agreement on the table of negotiations is balanced but still blocked. There are things which are not regulated as they should be. There are uncertainties and things on the A1 document to be improved to be sure that the internal market is working according to rules that are enforceable.

Main areas of work for the next European Commission

It’s first of all about transposing legislation and implementing legislation. Skills for instance is very important, but this must be developed also on the ground. There is a need to use ESF (European Social Fund) money very well and invest there where it is needed. Making sure that there is more investment in humanity, in human capital, in human beings.

21830/Press Release – 2019.04.10

Unemployment Rates

The euro area seasonally-adjusted unemployment rate was **7.8%** in **February 2019**, stable compared with January 2019. This remains the lowest rate recorded in the euro area since October 2008. The EU-28 unemployment rate was **6.5%** in January 2019, also stable compared with January 2019. This is also the lowest rate recorded in the EU28 since January 2000.

Eurostat estimates that 16.012 million people in the EU28 were unemployed in February 2019, a decrease by 102,000 in the EU28 and by 77,000 in the euro area compared with January 2019.

Czechia	1.9%	Ireland	5.6%
Germany	3.1%	Belgium	5.7%
Hungary (Jan.)	3.5%	Slovakia	5.8%
Netherlands	3.4%	Lithuania	6.1%
Poland	3.5%	Sweden	6.2%
Malta	3.5%	Portugal	6.3%
Romania	3.8%	Finland	6.7%
UK (Dec.)	3.8%	Cyprus	7.1%
Estonia (Jan.)	4.2%	Latvia	7.2%
Slovenia	4.4%	Croatia	7.5%
Bulgaria	4.7%	France	8.8%
Austria	5.0%	Italy	10.7%
Denmark	5.0%	Spain	13.9%
Luxembourg	5.3%	Greece (Dec.)	18.0%

Elsewhere

USA	3.8%	Russia	4.7%
Canada	5.8%	Brazil	12.4%
Japan	2.5%	Australia	5.0%
Switzerland	2.5%	India	3.5%
Turkey	14.7%	China	3.8%

GENERAL ISSUES

BREXIT Developments



1. Withdrawal Agreement Rejected a 3rd Time

British MPs rejected for a third time the withdrawal agreement on 29 March. That vote, which the government lost by 58 votes, its narrowest margin so far, was not “meaningful”: it was a vote only on the withdrawal agreement (including money, citizens and the Irish border) with future trade left for later.

Several more events took place in London before April 10.

- On April 1, the House of Commons was called upon to vote on new amendments with narrower options than those put to the vote this week, all of which were rejected (*).
- British MPs could still vote on the option of a customs union with the EU or a second referendum, both of which were rejected.
- And this could accompany a comprehensive package, including the withdrawal agreement, to be resubmitted to British MPs, even if the customs union option is not supported by the government.

(*) British MPs had again rejected four exit options, including:

- The option to maintain a permanent customs union between the United Kingdom and the EU (276 votes in favour, 279 against),
- The option to revoke Article 50 (191 votes in favour, 292 against),
- The motion suggesting participation in the common market (261 votes in favour, 282 against),
- The option to hold a second popular vote to give the British people another say (280 votes in favour, 292 against).

The Twenty-Seven required Ms. May to have a clear plan before the Extraordinary EU Summit of 10 April in order to have time to consider the British requests.

Theresa May asked for a further extension to June 30, the time to forge an alliance with Jeremy Corbyn's Labour that could secure a positive majority in the House of Commons on a soft Brexit (via a possible Customs Union), and she admitted that it will be necessary to consider participation in European elections without a breakthrough before 23 May.

2. EU Emergency Summit on 10 April

European Council president, Donald Tusk, has called an emergency EU summit for 10 April. He and many EU leaders would prefer a long extension beyond 2020, as long as there is a change in the UK's Brexit strategy.

From Dublin, Irish Prime Minister Leo Varadkar asked the Twenty-Seven to consider a long extension of the Article 50 process should the United Kingdom “*fundamentally*

reconsider its approach to Brexit and put back on the table options previously ruled out". Under these conditions, the Twenty-Seven will be able to give it "a generous and understanding response".

French President Emmanuel Macron and Irish Prime Minister Leo Varadkar took stock of the situation.

"The House of Commons' threefold rejection of the agreement, as well as the rejection at this stage of any alternative plan, puts us on the path to a no-deal exit. It is up to the United Kingdom to present a credible alternative plan, supported by a majority, by 12 April, to avoid this. If the United Kingdom is not able, almost three years after the referendum, to propose a solution that gathers a majority, it will have de facto chosen to leave without a deal", Mr Macron said. Furthermore: "We cannot avoid failure in its place".

The French President said he was "open" to a British plan that would provide for "new elections, a referendum, a different solution for the future relationship such as a customs union". "It is up to London to say it and say it now", he said.

However, Mr Macron warned that "a long extension [of deadlines] involving UK participation in European elections and EU institutions is not obvious or automatic", the priority of The Twenty-Seven being "the proper functioning of the EU and the single market". "The EU cannot be permanently held hostage to the resolution of a political crisis in the United Kingdom", he insisted, emphasising the "project" for the EU that the Twenty-Seven need to build, starting with the Sibiu Summit on 9 May.

"The United Kingdom was consumed by Brexit, but Ireland and France should not be consumed by Brexit", said Mr Varadkar, also emphasising "the need to set a forward-looking agenda for the EU".

21832/Press Release – 2019.04.02, 05

EUROPEAN COUNCIL

EU-27 Give London an Extra Six-Month to Successfully Exit EU



British Prime Minister Theresa May and the Twenty-seven agreed on a 'flexible' extension of the Article 50 period **until 31 October 2019**, with a mid-term review of progress agreed at the June European Council. The objective is to avoid a no-deal exit as far as it is possible.

This date of 31 October corresponds in theory to the date on which the new Commission takes office, which should therefore in principle no longer have a British member.

It is halfway between the wishes of some countries to have a short extension - before 30 June - and the desire of some to extend it until March 2020.

This six-month extension will in any case only be valid if the United Kingdom organises, as agreed, the European elections in May. Without elections and without an approved agreement in the House of Commons by that date, the United Kingdom will have to leave the EU by 1 June, according to the adopted text. But if the country adopts and ratifies the withdrawal agreement during these six months, it will leave on the first day of the following month.

During these "additional six months", the ball will therefore be "entirely in the hands of the United Kingdom", which will still be able to "ratify" the withdrawal agreement or "reconsider" the Brexit process and even "revoke Article 50", explained the President of the European Council, Donald Tusk, at the end of the meeting.

In theory, Mr Tusk's intention is that there will be "no discussion" at the June Summit, but simply information given to the Twenty-seven to assess the political process in the United Kingdom and the progress of ratification.

It was also agreed, in the terms of the conditions for this extension, that the Twenty-seven will be able to meet more often in the forming of Article 50, even though they will have some important deadlines by next October, such as the appointment of the future heads of the European Commission.

Recalling in their conclusions that the United Kingdom has already committed itself to show sincere cooperation, which is "a basic principle of our European treaties", according to Commission President Jean-Claude Juncker, the Twenty-seven nevertheless called on London to facilitate the objectives of the remaining Member States and to restrict itself to taking decisions that could hinder the EU's functioning and decision-making autonomy. A risk that Donald Tusk does not anticipate, who has ensured that he "has complete confidence" in Theresa May to ensure that this sincere cooperation is maintained. In the meantime, nothing will prevent the United Kingdom from voting, as it will remain a full member.

Theresa May, confirmed that her objective remains to "leave the EU with an agreement as soon as possible. If we are able to vote on the agreement in the first three weeks of May, we will not have to participate in the European elections and we will officially leave the EU on Saturday 1 June", the Prime Minister also said.

21833/Press Release – 2019.04.10

Inflation Rate

Latest Eurostat figures show that the annual inflation rate was **1.4% in March 2019 in the Euro area**, down from 1.5% in February. **The EU28 annual inflation was 1.6% in March 2019**, stable compared with February.

The largest contribution to the annual euro area inflation rate came from energy (+0.52%), followed by services (+0.51%), food, alcohol & tobacco (+0.34%), and non-energy industrial goods (+0.04%).

Portugal	0.8%	Poland	1.7%
Greece	1.0%	Sweden	1.8%
Ireland	1.1%	UK	1.9%
Croatia	1.1%	Belgium	2.2%
Italy	1.1%	Estonia	2.2%
Cyprus	1.1%	Luxembourg	2.4%
Finland	1.1%	Czechia	2.6%
Denmark	1.2%	Lithuania	2.6%
Spain	1.3%	Latvia	2.7%
France	1.3%	Slovakia	2.7%
Malta	1.3%	Bulgaria	2.8%
Germany	1.4%	Netherlands	2.9%
Slovenia	1.6%	Hungary	3.8%
Austria	1.7%	Romania	4.2%

Elsewhere

USA	1.9%	Russia	5.3%
Canada	1.9%	Brazil	4.6%
Japan	0.5%	Australia	1.3%
Switzerland	0.7%	India	2.8%
Turkey	19.7%	China	2.3%

21834/Eurostat News Release – 2019.04.17

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GLASS NEWS

FLAT GLASS

Glass Companies

Saint-Gobain



Saint-Gobain is rallying to support Notre-Dame. The Group is also looking at other ways of providing support.

Following the devastating fire that partially destroyed Notre-Dame cathedral in Paris last night, Saint-Gobain Group will offer its expertise in renovation and construction materials, notably to help restore the stained-glass windows. The Group is also looking at other ways of providing support.

Saint-Gobain is committed to culture and heritage preservation and is one of the main sponsors for the restoration of the Royal Chapel at the Palace of Versailles.

21835/Press Release – 2019.04.18

NSG



NSG continues its efforts to reduce the environmental impact of glass manufacturing and received Japan's first Environmental Product Declaration (EPD) for Architectural Glass Products, including float glass, double-layered glass, laminated glass and toughened glass from UL, an international certification organisation in the United States.



Harmonized with LEED (Leadership in Energy & Environmental Design), an international certification system managed by the U.S. Green Building Council (USGBC) to evaluate the environmental performance of buildings and based on ISO 14025, the EPD describes the product's environmental impacts from mining of raw material to product shipment. NSG will continue its effort to reduce the environmental impact of glass manufacturing process while improving the environmental performance of buildings through a wide range of architectural glass products.

21836/Press Release – 2019.04.01



PT Asahimas Flat Glass

The AGC group's Indonesian unit, PT Asahimas Flat Glass Tbk (AMG), began operating a mirror line at its Cikampek plant in the first quarter of 2019. This follows the launch of its new float furnace and mass production on its new magnetron sputtering coater in the third quarter of 2018, marking another milestone in AGC's glass footprints in Asia. PT Asahimas Flat Glass (AMG) is part of the global AGC group. AMG was established as a joint venture in 1973 between Asahi Glass Co. Ltd. (Japanese glass manufacturer) and PT Rodamas (an Indonesian distributor of glass and related consumer goods).

With the integrated, state-of-the-art float glass furnace, magnetron coating line and mirror line AMG offers a single source for a wide variety of specialty glass products and solutions catering to different market needs across the Asia-Pacific region.

The new magnetron coater with cutting-edge AGC-Interpane Europe technology is capable of delivering excellent products of solar control, high performance and spectrally selective glass in jumbo size up to 6 metres. A series of high-performance coatings, T-Sunlux and Stopray, targeted at residential and commercial segments for Asia-Pacific markets is launched progressively.

The new mirror line is a big step for AMG as it enhances its product line-up with the launch of Mirox MNGE (Mirox New Generation Ecological Mirrors), manufactured with patented AGC Europe technology and the same optimum levels of quality and service.

Mirox MNGE stands out for its copper-free metal coating, very low-level lead paints and its high resistance to corrosion. With the ecology of Mirox MNGE, end users are assured of low levels of Volatile Organic Compounds (VOCs) and formaldehyde emissions from the mirror. With Mirox MNGE being launched with product warranty and attaining Singapore Green Building Product (SGBP) certification, it presents end users with greater benefits (i.e. enhance indoor air quality, improve their health and well-being).

Customers in the Asia-Pacific region can look forward to a comprehensive range of both pyrolytic and magnetron-coated products and ecological interior glass, allowing architects and glass customers to combine creativity, aesthetics and facade technology, while fulfilling today's energy regulations and green building trends.

21837/Press Release – 2019.04.18

Orda Glass (Kazakhstan)

Stewart Engineers, a co-investor in and equipment and technology provider for the project, believes that the Kyzylorda float glass facility has the potential to be one of the best glass factories in the world. Stewart Engineers wants the project to be completed as quickly as possible, increasing employment in Kyzylorda and improving Kazakhstan's glass market.

During the implementation, the project has incurred many setbacks, despite this, Stewart Engineers achieved significant milestones for the project, such as:

- delivering the design on schedule,
- obtaining Kazakhstan State expertise approval of the design ahead of the construction schedule,

- supplying over 100 million USD of equipment on schedule, and
- supervising the installation of more than 1,500 tonnes of support steel.

Despite the delayed payments, Stewart Engineers delivered several thousand dollars' worth of ducting to the Kyzylorda work site as late as March 2019.

Even today, Stewart Engineers remains ahead of the construction schedule.

The process equipment cannot be installed until the buildings are complete. The following April 2019 picture shows current site conditions

Virtually all of the process equipment has been on site and ready for installation since December 2016.

According to the contract, construction is not in Stewart Engineers' scope of work. Stewart Engineers believes that the recent changes in the construction company and Orda Glass' ownership are positive for the future success of the project. However, Orda Glass has yet to fully address the losses and payment defaults suffered by Stewart Engineers and caused by the Baiterek corruption scandal. If all issues were resolved today so that work could commence immediately, Stewart Engineers realistically projects an August 2020 commissioning.

Stewart Engineers is ready, willing and able to return to the project once Orda Glass fulfills its contractual commitments

21838/Press Release – 2019.04.08

Miscellaneous

1. Glass for Europe: 'Maximising Energy Savings from Glazing'



A fresh brochure by Glass for Europe to support the development of window- and glazing-proof building codes

Glass for Europe has released a **fresh publication on the Energy Performance of Building Directive, Maximising energy savings from glazing**. The purpose of this brochure is to inform all stakeholders working on energy performance in buildings about the new EU legislative framework and how its robust implementation across European countries could help tap into the massive energy savings potential of advanced glazing. According to several studies, **the average energy performance of windows in the EU building stock is extraordinarily poor!** The average thermal transmittance value of 3.4 Uw, is that of a mix of products from the late 1960s and 70s when incomparably better performance products are readily available in Europe.

While window retrofitting and performance have been overlooked for too many decades, **Glass for Europe is keen on making sure that future national building codes become window and glazing-proof.**

The revised Energy Performance of Buildings directive (EPBD) must be implemented in all EU Member States in a little less than a year time. It is essential for a proper implementation that its provisions are well understood and that national stakeholders apprehend the specificities of windows so that revised national legislations can be designed in such a way as to maximize both energy savings and the uptake of high-

performance glazing. To that end, this new publication from Glass for Europe includes implementation recommendations.

“European countries cannot afford to miss the new EPBD implementation be it for energy savings, for the climate, for offering healthy and sustainable buildings to citizens or for the job creation opportunities it can generate” declared Bertrand Cazes, Secretary General of Glass for Europe, who went on: *‘All these promises are also those of high-performance glazing!’*

To download the publication on glassforeurope.com / https://glassforeurope.com/wp-content/uploads/2019/04/EPBD_guidance_webversion.pdf

21839/Press Release – 2019.04.16

2. Glass for Europe: Insignificance of Metals Migration in European Flat Glass Products

A new study confirms the insignificant health hazard linked to the release of metals from flat glass products.

The European Commission is considering reviewing the Foods Contact Material Directive on Ceramics (84/500/EEC) and contemplates to enlarge the scope to glass products, as a new study undertaken by the Stazione Sperimentale del Vetro reports undetectable or extremely low migration levels of metals from flat glass samples collected from all over Europe.

Glass for Europe believes that widening the directive’s requirements to include flat glass would represent a disproportionate burden for a sector which targets the construction and automotive industries for 95 percent of its production.

In addition, the huge amount of testing required would not serve the purpose of reducing potential health risk considering the insignificant health hazard demonstrated by this testing campaign, which used the most precise analytical techniques available in laboratories.

The flat glass industry believes that clear soda-lime silicate flat glass should be exempted from systematic testing obligations and that coloured soda-lime silicate flat glass should be exempted when none of the metal compounds potentially covered by a revised directive are intentionally added in the raw materials.

Read the summary of the study at <https://glassforeurope.com/insignificance-of-metals-migration-in-flat-glass/>

and the position paper on food contacts at: <https://glassforeurope.com/food-contact-materials/>

21840/Press Release – 2019.04.26

Fenzi



Fenzi Belgium manufacturing hub expands to meet growing demand for Luxver. Its top-level manufacturing plant in Vilvoorde, Belgium, interfaces seamlessly with the advanced mirror products research lab now even broader-based to host its constantly growing production.

Developed at the expertise centre of the mirror business unit, Luxver is a complete line of chemical products for glass silvering. It is easy and ready to use, and engineered to satisfy the highest safety standards. As with all Fenzi mirror-manufacturing products, Luxver delivers an exceptionally durable and safe end-product with highly reflective silvering that is uniform, brilliant and corrosion-resistant.

Alongside the very popular Duralux range, Luxver rounds out a family of high-quality products that cover the entire production process for all types of mirrors.

Building on the success of this unique set of products, and to meet growing market demand, Fenzi Belgium recently inaugurated a new area dedicated to Luxver manufacturing and research. The highly efficient structure has already obtained ISO 9001:2015 quality certification, confirming the extensive experience Fenzi has amassed in the field of mirror products.

The new manufacturing area is only one of the puzzle pieces that tell the story of Fenzi's ongoing, dynamic growth, from the earliest days. In more than 75 years of business, the Group has become a global leader in glass-processing chemicals, offering a complete range of products and setting the standard for the entire glass industry.

"The mirror-backing paints business unit that has expanded its range to include chemical products for silvering is of paramount importance to the entire Group, even in terms of sales volume," said Alessandro Fenzi, CEO of the Group.

21841/Press Release – 2019.03.29

CONTAINER GLASS

Glass Companies

O-I



1. O-I announces appointment of new Chief Financial Officer

O-I announced that John Haudrich has been appointed Senior Vice President and Chief Financial Officer, as Jan Bertsch has elected to step down and retire after serving as CFO since November 2015.

In addition to assuming responsibilities for the Company's finance and information technology functions, Haudrich will continue to lead O-I's strategy and integration organization. He reports to Andres Lopez, CEO. Haudrich and Bertsch will work together through mid-2019 to fully transition responsibilities.



Most recently, John Haudrich (pictured) served as Senior Vice President and Chief Strategy and Integration Officer at O-I where he led the development and execution of O-I's strategy in partnership with the Global Leadership Team. Prior to that role, he held various financial positions at the Company including Vice President and Acting CFO; Vice President, Finance and Corporate Controller; and Vice President, Investor Relations.

"It is an exciting time at O-I as we continue our transformational journey. John has been at the centre of this effort – defining and executing our strategy that focuses on growth by leveraging a renewed interest in sustainable glass packaging, establishing O-I as the most cost-effective glass supplier, expanding our business in selective and attractive segments, and developing new breakthrough innovations," said Andres Lopez. "Jan and John have worked closely together over the past three years alongside the Global Leadership Team to help enable O-I's transformation. By leveraging his strategic and financial skills, his business acumen, and his in-depth understanding of the Company's business, John is the ideal leader of O-I's integrated finance, IT and strategy organization going forward."

21842/Press Release – 2019.04.08

2. O-I in \$188 million acquisition of Nueva Fanal Mexican glass facility

Owens-Illinois (O-I) plans to acquire the Nueva Fanal container glass manufacturing facility from Grupo Modelo.

The Nueva Fanal facility is located near Mexico City, Mexico and produces 300,000 tonnes per year of glass container from four furnaces. It makes bottles for Grupo Modelo brands, which include Corona, Modelo Especial and Pacifico.

Grupo Modelo is a wholly owned affiliate of Anheuser-Busch InBev (ABI).

The acquisition is a cash transaction valued at approximately \$188 million and is expected to close this year.

O-I expects the business to contribute approximately \$140 million of revenue and \$40 million EBITDA¹ on an annual basis. Incremental synergies are anticipated.

O-I will also enter into a long-term glass supply agreement to continue to supply Grupo Modelo.

21843/Press Release – 2019.04.01

3. O-I to invest in glass recycling

O-I has invested approximately \$6 million (USD) in glass recycling around the world in the last three years.

Speaking on Global Recycling Day earlier this month, it said in Brazil it supports a campaign which collects glass from bars and restaurants and delivers it to O-I for reprocessing and manufacture into new packaging.

In France, it links how much glass it recycles to charity – in 2018, O-I donated €90,000 to fight cancer.

The company is working on technology to increase levels of recycled glass in all products, particularly amber and clear glass which historically have used less cullet than green bottles.

21844/Press Release – 2019.04.17

Verallia Group



1. Verallia has joined TM Alcludia Reciclatges to build a glass recycling plant in the province of Guadalajara, Spain.

Both companies will invest €7million in the new glass recycling plant that will directly employ 14 people. The new company, **Calcín Ibérico**, will have the most modern technology and have a high capacity for waste treatment. In addition, it will be strategically located in Guadalajara to deal with the glass waste generated in the neighbouring community of Madrid.

This is the second plant in which Verallia Spain has invested, after having recently launched the Recicladora de Vidrio de Canarias plant.

TM Alcludia Reciclatges is a company with more than 10 years of experience in the collection, transport, cleaning and treatment of glass and also has a glass recycling plant in the Balearic Islands.

21845/Press Release – 2019.04.09

2. Verallia starts new Brazilian plant

Operations at Verallia's new Brazilian plant have begun. The company's Jacutinga plant started operations in March this year. The plant replaces the Água Branca, São Paulo city site.



The company has three plants in Brazil, all located in the south west of the country: in Campon Bom, Rio Grande do Sul state, Porto Ferreira, Sao Paulo state, and now Jacutinga in Minas Gerais state.

Verallia Brasil is present in the still and sparkling wines markets. The business is also strongly present on beer and spirits lines of products (such as cachaça), without forgetting the food and soft drinks market.

The company is working at full capacity today after the 2015 and 2016 crisis. Some consumer habits changed in this period, which increased glass demand mainly for light bottles.

The one-way beer market has also increased thanks to craft beers, premiumisation and home consumption.

Premiumisation is also prevalent in the spirits and food markets.

A further growing trend among Brazilian consumers is for grape juice, which is linked to healthy eating and is becoming part of a day by day trend for many families.

Verallia's Campo Bom plant supplies bottles for this new trend.

21846/Press Release – 2019.04.30

Ardagh Group



Ardagh Group launches new Jameson Irish Whiskey bottle. The company has developed the latest evolution of the bottle of the famous Jameson Irish Whiskey.

50 years after the iconic Jameson Irish Whiskey bottle was launched, Ardagh Group has developed its latest evolution of the 75cl bottle, featuring a tapered body with a generously curved shoulder, a rounded 'smile' on the neck and an 'eyebrow' on the body to emphasise the brand's re-styled labelling.

The new, tactile heel at the base also features an embossed '1780' – which is how the whiskey was known in years gone by, in reference to the date that the foundations of the Jameson distillery were laid in Dublin.



The bottle is also 25 grams lighter, achieved using the Blow and Blow process, while retaining the height, diameter and neck profile, satisfying the requirement for more sustainable, light-weighted glass bottles.

Eagle-eyed fans of the brand will also find the iconic Jameson barrelman embossed into the base of the bottle. Ardagh also produce the 70 centilitres, 1 litre, 1.75 litre and 200 millilitres flask edition of the bottle which will all feature the new design in 2019.

Jameson has recently entered the Impact Top 10 Premium Spirits Brands Worldwide, after record growth in 2018.

21847/Press Release – 2019.04.11

Vetropack Group



To provide its customers with crystal-clear transparency, Vetropack undertakes “cradle-to-cradle” life cycle analyses of its products and enables customers to evaluate a range of scenarios. The traceability of individual products is becoming an increasingly sought-after attribute.

In its efforts to reduce the eco-footprint of its products and services, Vetropack Group is sending out a clear message: investments are being made in product development, logistics, measures to raise the percentage of cullet in its melted material and the energy consumption of the melting furnaces.

In 2018, the percentage of recycled glass used in producing green glass was 61 percent, while amber and flint glass containers consisted of 50 percent and 43 percent used glass respectively. In some glassworks, used glass makes up as much as 83 percent of the raw material.

Overall, 2,499 GWh of energy was consumed in 2018. Thermal energy for the furnaces accounted for more than 60 percent of the total greenhouse gas emissions generated during production.

Benefiting from mutual exchanges

The close and candid dialogue with customers helped Vetropack to develop and improve its products on a continual basis. All customer feedback serves as impetus for a learning process.

Quality is very important to Vetropack and, in addition to the finished product, also incorporates the quality awareness established across the Group and encapsulated in the corporate principle “one brand, one quality”. In 2018, Vetropack focused on a 360-degree analysis of all quality processes with the objective not of establishing more processes throughout the Group, but rather bringing about optimised ones.

Product quality and safety are an essential part of Vetropack Group’s quality management, as is environmental management. For large customers in particular, information about the environmental footprint of their glass packaging is increasingly important. Customers are setting ever greater store by the principle of sustainability because today’s consumer is more conscious of health and environmental issues.

The 2018 Sustainability Report is available online:

www.vetropack.com/en/sustainability/sustainability-report/

21848/Press Release – 2019.04.05

Beatson Clark



Folláin Preserves, premium Irish food producer, approached glass manufacturers Beatson Clark for a packaging rebrand as they aim to take their homemade products to Europe

Founded in 1983, Folláin Preserves, which produces a wide range of high-end, home-made food products, decided to overhaul its current packaging and approached Beatson Clark for a bespoke solution.



The jar has a deep twist-off neck and has been finished with a simple and clean-looking label.

Beatson Clark worked with Folláin’s marketing team to design and produce a 330ml jar. The curved square jar will be used for Folláin’s range of preserves, pickles and relishes. Folláin – which is the Irish word for wholesome – predominantly sells its products into the Irish market, but wanted to grow its sales in Europe, and felt the time had come to replace its standard glass jar with something more unique and premium in look and feel. Laura Hewson, Marketing and Sales Manager at Folláin Preserves, said, “We are a premium brand, and we wanted our packaging to reflect that with something unique to us. The standard jar we were using didn’t represent the quality of the contents within.”

“Our aim was to create a vintage and old fashioned-style jar, which would become a collectable, encouraging customers to reuse and recycle them. With support from the team at Beatson Clark, we have managed to achieve just that.

“We worked with Beatson from design right through to the final production run. We spoke to lots of glass manufacturers, but Beatson Clark demonstrated their credibility to work with a brand of our size and their competency in terms of capacity, design specification and size of the project.”

Dean Arey, Beatson Clark’s Design Engineer, worked with Folláin to design a pack which would allow them to take their brand to the next level.

“Rebrands of this size are often critical to the development of a brand, so it was important for us to achieve a design which Folláin felt would elevate their position in the European market,” said Dean.

“With a major packaging overhaul of this size, developing the concept is as critical as the quality of the finished product. We have found that many companies of Folláin’s size approach us as their packaging partner for rebrands because we have design and manufacture capabilities in house and are able to work with them on every aspect of the project over the medium and long term.

“We firmly believe taking a flexible approach makes us the go-to glass manufacturer for rebrands. We are able to give customers something completely bespoke, which, in an ultra-competitive food and drink market, is very important.”

Folláin Preserves will officially launch its new packaging at the Private Label Manufacturers Association (PLMA) annual World of Private Label international trade show in Amsterdam on May 21, 2019.

21849/Press Release – 2019.04.11

BA Vidro



BA Glass Spain will invest 12 million EUR in their plant in León in order to improve one of its furnaces.

The BA Glass Spain factory, employing 250 people directly, will invest in a furnace pending improvement in the factory in the fourth quarter of this year. It will be an intermediate repair, consisting of the renovation of the refractory materials and the incorporation of technological improvements in the moulding machines and the inspection of the containers, in order to extend their useful life.

The president of the Council of Castilla and León, Juan Vicente Herrera, recently visited the BA Glass Spain factory in León. The group of Portuguese origin that owns the factory is consolidating its position in Castilla and León with the investment of 37 million EUR in two phases between 2018 and 2019, to renovate the two existing furnaces in the facilities and introduce technological improvements in the production process, according to sources of the regional government.

The León complex carried out an investment of 25 million EUR between April and June 2018 for the total renovation of one of its two glass production kilns, in order to have a totally new infrastructure, with greater energy efficiency and fusion capacity.

In addition, equipment was incorporated in all work areas, highlighting the introduction of new moulding machines -informatized and with a greater number of sections- and the updating of inspection and palletizing machines for the finished product, along with important safety improvements.

With this global investment of 37 million EUR, the centre will have been equipped with important technological improvements in all the processes for the production of glass containers. This will also extend the life of the factory that supplies the main reference brands in the segments of wines, sparkling wines, soft drinks and food, with this last sector being where its productive activity stands out the most.

21850/Press Release – 2019.04.08

CP Glass (Poland)



CP Glass (former POL-AM-PACK S.A) may be one of the youngest container glassmakers. The Polish company was only formed less than 15 years ago but has brought a modern approach to glassmaking.

It has sought opportunities in the traditional, conservative glassmaking sector and reaped the benefits.

After successfully establishing its first glass plant in its homeland, it made the decision to build a second plant nearly 6,000 km away, in Aurangabad, India.

This plant was one of the most modern in the country, equipped with the latest technology and designed to meet the needs of large, global customers with bases in India.

Similarly, the company's unconventional style was highlighted in a recent beer bottle launch. To help meet the growing trend for product differentiation, the flint-coloured bottle is triangular shaped and comes with its own cardboard six pack packaging.

CP Glass CEO and President, Krzysztof Staniek, states: "Because we are newcomers our approach is different and we like to bring as much fresh air as possible to this industry.

"We are not only proud that we can make glass, we are proud that we can convert this industry to a higher level, to be more modern, innovative and offer solutions to customers that were not available in the past."

21851/Press Release – 2019.04.23

DOMESTIC TABLEWARE AND CRYSTAL GLASS

Glass Companies

Arc



1. Arc receives €120 million financial boost

French tableware company Arc has secured a €120 million financial boost from its various lenders. It will enable the group to implement its Synergie 2020 plan, which aims to strengthen the company's industrial footprint, particularly in France, where it employs more than 5,000 people.

A total of 700 jobs will be lost, by not replacing staff who retire and reducing the volume of temporary workers.

The funds will make it possible to finance major investments in the Arques site, especially in the cold end, in order to strengthen its competitiveness.

Arc will repay the loans in 2023 at a 12% interest rate.

21852/Press Release – 2019.04.02

2. Kris Malkoski appointed CEO of Arc Americas

Arc has appointed Kris Malkoski as CEO of Arc Americas.

Kris Malkoski was most recently President, Global Business and Chief Commercial Officer for World Kitchen, a \$700 million global housewares company.

Nicholas Hodler, Arc President & CEO, said: "Kris' knowledge of the global houseware market, expertise in implementing strong strategic commercial and e-commerce programmes, and her leadership qualities will be undeniable assets for Arc Americas."

"Arc's commitment to sustainable innovation, dedication to quality, and continuity, alongside being a world-class manufacturer are values I am proud to stand for and advocate for," said Malkoski.

Arc is currently implementing six strategic priorities, focusing on: safety; restoring profitability; customers; engaging employees; defining and controlling tools and processes; and innovation.

Arc Americas has launched several projects geared to improving operating performance, gross sales and margins and reducing SG&A (selling, general and administrative expense), along with rolling out its digital platform to drive e-commerce sales.

21853/Press Release – 2019.04.02



Riedel



Riedel continues Elton John collaboration. Continuing its partnership with Sir Elton John, Riedel unveils Limited Edition *Magnum Decanter*.



Glassware innovator, Riedel, has announced the continuation of its collaboration with the Sir Elton John Foundation, with the new Cornetto Rainbow Double Magnum. Each of the 99 crystal decanters, handmade in Kufstein, will be engraved with Sir Elton John's original signature for the second time, following the success of the specially created decanter and collaboration launched in 2017.

This year the colours of the rainbow will again serve as an eye-catching design feature on the Cornetto Rainbow Double Magnum, representing tolerance, acceptance, diversity, hope and yearning.

"We are particularly honoured to be able to use Sir Elton John's original signature for the second time," said Maximilian J. Riedel, 11th generation and managing director of the family business. "It will be engraved on each of the 99 decanters. This makes each of the decanters a truly extraordinary, unique piece.

"Our limited editions usually comprise 50 units. But in this case, we decided to produce 99 in order to meet the international demand. In past years, the decanters were sold out as soon as they were available. I have the greatest respect for Sir Elton John's work and am happy to be able to support him in this way."

The limited edition magnum has a significantly larger capacity than the standard size. The production of the decanter is a highly complex and difficult process and can only be achieved by a glassblower in Riedel's factory in Kufstein. Sir Elton John's signature can be found on the numbered certificate, and each piece of the edition is unique and a work of art made of crystal glass and mouth blown.

21854/Press Release – 2019.04.17

Steklarna Hrastnik

Slovenian glassmaker Steklarna Hrastnik has installed a solar power plant. The generated electricity from the plant will be used for the production of hydrogen and help reduce the company's carbon footprint. The installation of the solar power plant is part of the OPERH2 project which is co-financed by the Republic of Slovenia and the EU from the European Regional Development Fund (ERDF).



The development of the mentioned technology is in its pilot stage. The hydrogen plant is currently under construction.

"It is a facility where electrolysis and the energy from the solar power plant will be used to generate high purity hydrogen that will then be used on a pilot glassmaking furnace to reduce the CO₂ footprint.

We are thus introducing biocomponents into the fuel used to melt glass," said Tilen Sever, researcher at RCeNeM, who is working with Steklarna Hrastnik on the project. The pilot installation phase is expected to be completed in July this year when the solar power plant is to be connected to the pilot plant.

This will be followed by an experimental development phase which is aimed at the practical confirmation of the new glass melting solution employing hydrogen.

The guidelines for the transfer of the technology to large glassmaking furnaces will also be formulated.

21855/Press Release – 2019.04.02

Vicrila



Spanish glassmaker Vicrila is to invest €17 million in its Basque site. The tableware manufacturer has launched its strategic plan to 2022, at the end of which it expects to increase its exports from 40% to 60%.

The investment will focus on increasing innovation to improve the design, expand its range of products and modernise the lines.

The company based in Leioa will introduce technological improvements in thermal treatments and automation, in addition to reorganising the production of its Lamiako plant.

The investments aim to increase the flexibility of its furnace lines by introducing greater automation of its machinery, including quality control by artificial vision systems, to generate more added value to manufacturing processes, diversify the product offer and increase production by reducing costs and, above all, energy expenditure.

The company is closing agreements with local partners in the UK, Ireland and Mexico and aims to become stronger in the USA.

Vicrila has successfully passed audits for companies including McDonald's, Coca-Cola, Ikea, and Unilever in recent years.

21856/Press Release – 2019.04.16

Baccarat



The 2018 figures announced by SA Baccarat during the board meeting on April 12 are more than encouraging: an annual turnover of € 150.9 million (+ 2.9%), a current operating income of € 8 million € (+ 4.3%) and net of € 4.7 million (+ 40.9%), the production of € 53 million of objects.

The commercial performance was remarkable in 2018: sales, whose growth reached its highest level in five years, were driven both by the renewed dynamism of the bottle-making business after several difficult years and the good performance of the core business activity especially in the Americas and Europe.

In 2018, Baccarat also strengthened all operations to increase the visibility of the brand and place it in top position in the minds of a younger audience.

Innovations 2018: the Rouge 540 perfume, a collection of furniture made with Luxury Living, a first capsule collection of crystal shoes and the limited edition of the first Be@r-brick crystal.

2018 was marked by the acquisition of Baccarat by the Chinese group Fortune Fountain Capital via its Luxembourg subsidiary Fortune Legend Limited.

This year, after the opening of the boutique and lounge bar in Milan, the company plans to continue on this path in Miami and Shanghai while reaping new collaborations with other brands.

21857/Press Release – 2019.04.14

Lalique



1. The group's revenues increased by 6% or 9% in local currencies in 2018 compared to the previous year to reach 136.4 million euros.

Consolidated net profit amounted to 5.2 million euros, reflecting the ongoing investments made in the various business segments and in line with the forecasts announced when the half-year results were published. With the acquisition, on March 28, 2019, of 50% of The Glenturret, the oldest single malt whiskey distillery still in operation, Lalique Group has expanded its offering in the luxury goods market.

The group plans to launch a rights issue later this year, and is currently negotiating with two luxury brands for a perfume license.

In 2019, Lalique Group expects moderate growth (in local currencies) as well as a slight improvement in operating profit margin (EBIT).

21858/Press Release – 2019.04.18

2. **The Glenturret**, owned by the Edrington spirits group, passed into the Lalique Group at the end of March, as part of a 50/50 joint venture. Lalique Group paid £ 15.5 million. The group intends to exploit the synergies between the two houses, which will include the creation of Lalique limited crystal bottles and carafes, as well as co-branding operations between the two brands in the hotel and restaurant industry and gastronomy.



Lalique intends to increase the capacity of the Scottish distillery to 170,000 litres per year to reach, eventually, 500,000 litres. This year, a production of 205,000 litres is planned.

21859/Press Release – 2019.03.28

Cristallerie Lehrer



The crystal factory Lehrer, installed since 2010 in Garrebourog (France), in the heart of the Zorn Valley, develops. In an 800 m² store specializing in crystal in all its forms, the family business currently employs fifteen people.

Four others, including two glassblowers, will reinforce the teams, with the construction of a new building of 1,000 m² adjacent to the first. A party has opened for Good Friday. A hot workshop hosts crystal blowing demonstrations. It faces an amphitheatre where 70 people can take place, to admire the dexterity of glassblowers and learn more about glass techniques.

This new building will also have a storage and shipping warehouse, a cold workshop for engraving, cutting, painting, etc.

The arrival of two new melting furnaces, each capable of holding 150 kg of heated crystal at nearly 1,000 ° C, will enable Lehrer to increase its production capacity. "Our creations, such as lamps, are very successful, even in neighbouring countries. But our current oven of 80 kg no longer allowed us to meet all the demands of our customers" says Arnaud Lehrer, co-manager of the crystal factory.

21860/Press Release – 2019.04.20

REINFORCEMENT GLASS FIBRES

Glass Company

PD-Tatneft Alabuga Fiberglass



PD-Tatneft Alabuga Fiberglass has increased its fiberglass production capacity by 32%, as a result of the modernization of the glass furnace. According to the Industry Development Fund, which provided 441.51 million RUB for the project, as a soft loan, the total investment in the modernization amounted to 883 million RUB.

80% of produced fiberglass will be sold in Russia, the remaining 20% abroad.

PD-Tatneft Alabuga Fiberglass is one of the largest manufacturers of fiberglass in Russia and the CIS. This joint venture opened in 2010 between Tatneft and the German company Preiss-Daimler Group, which invested 3.2 billion RUB in the construction of the plant.

21861/Press Release – 2019.04.19

SPECIAL GLASS

Glass Companies

SCHOTT

1. **SCHOTT ROBAX® and NEXTREMA® under new management**

Stephanie Schwarz (pictured) has taken over the management of the SCHOTT ROBAX® and NEXTREMA® business divisions on April 1, 2019



She follows Stefan Hergott, who led the business since 2016, Hergott will be taking on a new challenge and will manage the strategic division “Thin Glass & Wafers” at SCHOTT. Stephanie Schwarz completed her mechanical engineering studies at RWTH Aachen University in 2005 with a degree in engineering. Immediately afterwards, she started her career at SCHOTT, where she worked in global management positions in logistics and production optimization, lean management and operations.

Most recently, she has worked as Sales Director Europe and New Markets responsible for ROBAX® and NEXTREMA® for two years. She brings along substantial expertise for the marketing of these well-known glass-ceramic products.

21862/Press Release – 2019.04.02

2. Schott invests in Brazilian glass business

Schott is to invest BRL 50 million (\$9.7 million) in its pharmaceutical tubing production in Rio de Janeiro, Brazil in the next two years.

The investment covers the latest update of the company’s perfeXion on-line inspection system process as well as implementing modern production technology in glass-melting furnaces. It follows a previous five-year BRL 80 million (\$15.6 million) modernisation project.

“In line with our zero-defect approach, we already established a new era in quality processing for pharmaceutical tubing with perfeXion. Now, the investment allows us to further optimise the machinery to continue setting new standards in the pharma glass industry,” said Joerg Wagner, Technical Director of Schott Brazil Division Vitrofarma.

21863/Press Release – 2019.04.23

Osram



Osram is working on the SmartVIZ project, which explores innovative visualization technologies with micro LEDs.

Osram is working with ASM AMICRA and Fraunhofer IISB on brighter, more robust and more efficient lighting solutions than LCDs or OLEDs.

Osram Opto Semiconductors, a leader in photonics, announced it is part of a new project that is exploring the principles of high-resolution visualization solutions using μ LEDs (micro LEDs). The project, which began in November 2018, is funded by the Bavarian State Ministry for Economic Affairs, Regional Development and Energy. There is still no standard definition for the term μ LED, only a loose guideline for the opto chip’s dimension to include edge lengths smaller than 100 μ m. Since μ LED technology can produce extremely high luminance in a wide dynamic range, it can play a key role for future megatrends such as augmented reality applications. The focus of this project is on automotive interior applications. The project is expected to complete in October 2021 when an initial demonstrator will be presented.



The SmartVIZ project will research new visualization concepts for automotive interior applications thereby realizing imaging scenarios on transparent backplanes in high-resolution.

Source: Osram

Imaging devices based on direct emitting μ LED pixels are considered a disruptive development in the visualization market and have the potential to sideline technologies such as LCD or OLED. These rather conventional technologies are constrained by their fundamental limits in energy efficiency, contrast, luminance, functionality and other associated restrictions. Over the next two and a half years, the SmartVIZ research project aims to provide the basis for future transparent, high-resolution, direct-emitting visualization solutions using μ LED technologies.

The envisioned work packages will focus on three key technologies.

- 1) the design of efficient μ LED light sources;
- 2) their handling on sub-component level;
- 3) the final assembly.

Red, green and blue μ LED structures will perform as efficient high-luminance image pixels. Implementation of such concepts and applications requires in-depth studies of the underlying physical principles that are in-part entirely different than today's macro LED chips.

The project will also conduct research addressing the component integration of μ LEDs using a novel approach for transparent and flexible image encoders. Transparent substrates based on indium gallium zinc oxide thin-film transistors (IGZO TFTs) will be the researchers' focus for controlling the individual pixels. This approach allows for quasi-transparent surfaces, which can be filled with content only if the μ LEDs are switched to active. Employing such an active matrix backplane for the driver electronics allows image rendering with μ LEDs to produce visualization scenarios with ultra-high resolution.

Another work package will target processing concepts to enable rapid transfer of large quantities of μ LED chips from a source wafer to the backplane driver electronics via automated parallel assembly. A key requirement for this is a positioning accuracy of around 1.5 μ m. Researching accurate transfer methods for such small chips (edge length

smaller than 40 µm) will require entirely new technological approaches, which will be addressed within the project.

The consortium partners have the necessary expertise to realize the envisioned technological breakthrough. For instance, ASM AMICRA is an expert player in the field of production automation, especially in the high-tech area of photonic applications. The company brings its in-depth knowledge of micro assembly of photonic components to the project. The Fraunhofer Institute for Integrated Systems and Device Technology IISB specializes in power electronics and technologies for producing semiconductor devices. IISB will design and manufacture transparent electronic circuits for their final installation in micro-pixel visualization components.

Hubert Halbritter, SmartVIZ project leader at Osram Opto Semiconductors, described his company's role, "as a project partner with in-depth experience in micro-pixel imaging components that will research efficient, high-luminance pixels. Along with our partners, we aim to gain technology leadership in one of the key future technology markets."

21864/Press Release – 2019.04.16

Şişecam Group

Şişecam Group and ASELSAN, Turkey's largest defence electronics company, are to cooperate in the development of joint projects.



On the left Prof. Ahmet Kirman, Vice Chairman and CEO of Şişecam Group, and on the right Prof. Haluk Görgün Chairman and CEO of ASELSAN

Şişecam Group and ASELSAN signed a cooperation protocol with the aim to develop solutions in product composition and optimization matters besides the supply of materials at such standards for use in the defence industry projects of ASELSAN. Within the framework of the protocol signed, Şişecam Group and ASELSAN will make joint efforts to produce domestic and national solutions by combining their capabilities, skills and experience built upon their deep-rooted history in their own fields of operation.

The scope of this cooperation, which will continue at least two years and will be implemented in two phases consisting of preliminary studies and prototype production, is aimed to develop a wide range of glass and ceramic materials for use in various equipment to be developed by ASELSAN, led by the periscope glasses of the national tank project. The materials in question are planned to be resistant against thermal shock, possess high strength, and have different optical performances than conventional glass depending on the requirements of the relevant equipment. The development of product compositions by Şişecam Group for the use of ASELSAN are aimed to start from the raw materials and cover the domestic and national production processes at every stage.

21865/Press Release – 2019.04.18

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DIVERSE

GLASS, RESEARCH & SUPPLIERS

Professor Alicia Durán is the Phoenix Award Winner of 2019

The Phoenix Award Committee is pleased to announce Professor Alicia Durán as the 49th recipient of the Phoenix Award and 'Glass Person of the Year 2019'.



The Phoenix Award Committee is pleased to announce Prof. Alicia Durán as the 49th recipient of the Phoenix Award and 'Glass Person of the Year 2019'. Alicia Durán is Research Professor at CSIC, the Spanish Research Council. She has developed her entire professional career at the Institute of Ceramics and Glass (CSIC), leading the GlaSS research group at the Department of Glass. She has also been Secretary of the Glass Section of the Spanish Ceramic and Glass Society for more than 25 years.

Professor Duran graduated in Physics at the Universidad Nacional de Córdoba, Argentina, in 1974 and obtained the PhD in Physics at the Universidad Autónoma de Madrid in 1984. In 1988 she was awarded with the Gottardi Prize of ICG for young glass researchers.

The Phoenix Award Committee has selected Professor Duran to receive this year's prestigious Phoenix Award in recognition of her extensive work in the furtherance of glass, glass-ceramics and sol-gel materials research, from basic research to applications in the industrial glass sector and other final users of glassy materials.

Topics related to energy and environment research are the aim of most projects developed by Professor Duran in the group GlaSS, recognised as Excellence group of CSIC. Different materials and components for fuel cells and Li-batteries, transparent nano glass-ceramics for photonic applications or glass and glass-ceramic sealing for SOFC, come together with protective and environmentally-friendly anti-corrosive coatings, meso-structure films with photocatalytic activity and multifunctional sol-gel coatings.

She has maintained a continuous collaboration with Spanish and international glass industry, in relevant topics; from enhancing energy saving in furnaces, to environmental issues and emission control or recycling systems, to certification of food safety of glass containers.

International cooperation and teaching have been always among her essential objectives, receiving the Raíces (Roots) Award to International Cooperation in Argentina in 2014.

From September 2018 she is the President of the International Commission on Glass (ICG), an international society of national scientific and technical organisations, with particular interests in glass science and technology. The aim of ICG is to promote and stimulate understanding and co-operation between glass experts in the fields of science and technology, as well as art, history and education. A particular goal of her Presidency is centred in the promotion of women throughout the whole field of glass.

Professor Alicia Durán has made an outstanding contribution to the world of glass science and technology all through her career and is recognised as a worthy winner of the 2019 Glass Person of the Year.

"Alicia Durán has dedicated her life to glass research, education and transmission of knowledge" commented Jean-Luc Logel, Chairperson of the Phoenix Award Committee for 2019. "Her extensive knowledge is matched only by her great simplicity and exceptional generosity. As a scientist and as a human being, Alicia embodies the PAC's values perfectly."

21866/Press Release – 2019.04.15

Research Project in Yorkshire

Glass industry researchers based in Yorkshire (UK) are taking part in a major project to weld glass to metal and flexible glass to glass.

The project could revolutionise manufacturing industries such as aerospace, defence, optics, optoelectronics and healthcare.

The scientists at Glass Technology Services (GTS) in Sheffield are working with Heriot-Watt University in Edinburgh and a consortium of leading industry partners to fuse glass to metal, and to hermetically seal flexible glass using an ultrafast laser system.

Because of the difference in thermal properties glass could shatter if conventional heat bonding techniques were used, so adhesives are used instead. However, this can be messy and unreliable as the glues can degrade.

Now, by using a laser system, the need for glue is eliminated, vastly increasing durability and design possibilities.

GTS has worked on the project, dubbed UltraWELD, to commercialise the idea. Rob Ireson, leader of the GTS innovation team which included Dr Owen McGann and David Eustace, said: “We have been very excited by this project. It has massive potential in many industries which need to attach metal to glass.

“Our part in the project has built on the GTS expertise in OLED lighting (organic light-emitting diode devices). Our in-depth knowledge of glass science and materials processing will help maximise the robustness of the final bonded components.

“GTS will also be exploiting its extensive networks within the glass industry and related sectors to identify new applications which might benefit from the UltraWELD technology.”

The consortium working on the project includes lasers specialists Oxford Lasers and Coherent Scotland, the high-tech defence company Leonardo; photonics technology firm Gooch & Housego, and the CPI.

21867/Press Release – 2019.04.12

Sisecam Group

Şişecam Group’s net sales increase by 37 percent in 2018.

The share of international sales within Şişecam’s total sales made during the period in question is at the level of 61 per cent, while the Group’s total investments during 2018 reach the level of 2.6 billion TRY.

The consolidated net sales of Şişecam Group for the fiscal year 2018 reached the level of nearly 15.6 billion TRY with an increase by 37 percent compared to the same period of the previous year. The Group also obtained a net profit of nearly 3.4 billion TRY as a result of continuing the raise of its profitability with a sustainable performance from all aspects. Achieving a total glass production volume of 4.9 million tonnes at its domestic and overseas plants, the Group manufactured 2.4 million tonnes of soda ash and 4.1 million tonnes of industrial raw material during this period.

In his statements regarding the financial results for the period of 2018, Prof. Ahmet Kirman, Şişecam Group Vice Chairman and CEO, said, “Our Group made an investment expenditure of approximately 2.6 billion TRY”. Kirman continued, “While improving our revenues and profitability during the period 2018, we have also made significant investments in support of our long-term sustainable growth. In order to reinforce our effectiveness in our existing markets, we concluded two acquisition operations during that period in Italy (Manfredonia plant) and India in the flat glass line.”





Prof. Ahmet Kirman, Şişecam Group Vice Chairman and CEO

“In Turkey, we continued our investments for automation, modernization and capacity growth with the approach of Industry 4.0, besides our new investments. We completed our investment for the fourth furnace at our glass packaging plant in Eskişehir. Upon putting this new furnace into operation with an annual production capacity of 150 thousand tonnes, our glass packaging production capacity in Turkey reached the level of 1.2 million tonnes per year.

“Moreover, we commissioned our new glass-fibre plant in Balıkesir during the last quarter of the year and started our production operations. Thanks to our new investment that will have an initial production capacity of 70 thousand tons per year, we are aiming at substituting the glass-fibre imports and at transforming national resources, led by boron, into products with added value.”

Stating that they continued contributing to economy with an exports revenue of nearly 760 million USD in 2018, Kirman added, “We are continuing to create value for all of our stakeholders thanks to our successful financial results. We have the aim of further reinforcing our financial structure in such a manner that it underpins our growth also during the upcoming periods. While maintaining our efforts for the optimization of our production places at a fast pace, we will also keep optimizing our costs by employing all of the efficient methods led by the increased use of automation. We are continuing our operations in line with our goals for ranking among the top three globally, achieving a sustainable and profitable growth, and ensuring the operational excellence in all of our business lines.”

21868/Press Release – 2019.04.24

SEMINARS / CONFERENCES / WORKSHOPS

ICG – International Commission on Glass



Şişecam Group hosted the Executive Committee meeting of International Commission on Glass (ICG) at Porto Nogaro flat glass production plant located in the north of Italy.

Members of Executive and Advisory Committees of the International Commission on Glass (ICG) from 33 countries convened at Porto Nogaro flat glass production plant located in the north of Italy. Following a study visit to the production plant under the guidance of Professor Şener Oktik, Şişecam Group Chief Research and Technological Development Officer and Member of ICG's Executive Committee, and Mr. Beytullah Şahin, General Manager of Şişecam Flat Glass Italy SRL, "ICG 2030" strategies were discussed before noon during the meetings conducted at the plant. In the afternoon, the preparatory works for the ICG General Assembly to be held in Boston in June were completed.



21869/Press Release – 2019.04.25

Glass Technology Services (GTS) Training Programme 2019



GTS announced an extended training programme for 2019 due to increasing demand from across the glass industry and wider supply chain.

The 2019 programme features not only an increased number of introductory and technical events, but wholly new courses and workshops developed following feedback and requests from our client-base.

Please find herewith the list of the courses for 2019:

16-18 April 2019	Glass failure analysis (3 day course);
Wednesday, 8 May 2019	Fundamentals of Glass (1 day course);
Tuesday, 9 September 2019	An introduction to glass packaging (1 day course);
Tuesday, 10 September 2019	Glass appreciation – an introduction to glass (1 day course);
Wednesday, 9 October 2019	#PharmaGlass (1 day workshop);
15-17 October 2019	Glass failure analysis (3 day course);
Wednesday, 13 November 2019	Fundamentals of Glass (1 day course);

More info at: <https://www.glass-ts.com/training>

21870/Glass Technology Services Press Release – 2018.12.13

DGG-USTV

The German Society of Glass Technology (DGG) and the French Union for Science and Glass Technology (USTV) co-organise the 93rd annual joint meeting, which will take place on **13-15th May 2019 at the Maritim Hotel in Nürnberg, Germany.**

Seven sessions will take place.

- Session one will be held on 'High temperature properties/ Hot forming, secondary manufacturing, link properties structure/ Mechanic of Glass';
- Session two will cover 'Glass for Optics/Fibers/ Laser Application on Glass';
- Session three will demonstrate 'Glasses in Healthcare'
- Session four will be on 'Thermodynamics, Redox, Colour/ Furnace, Energy and Environment'.
- Session five will be held on 'Glass surface and alterations/coatings/Heritage';
- Session six will cover 'Glass Ceramic/Crystallization/nano-and microtexturation'
- Session seven will be 'modeling from the atom to the final product: Process control, data mining and deep learning in the glass industry.'

There will also be activities, including: the 'International School, Thermodynamics of Glass (TC3 ICG, USTV, DGG) in Erlangen, Sunday 12th May 2019; a special session of FunGlass – Centre for Functional and Surface Functionalized Glass; Oral and poster presentations on a variety of topics relating to glass; a students' special programme and workshops on the theme of glass in German.

The DGG-USTV conference is 14 days earlier than usual.

21871/Press Release – 2019.01.11

Glass Service

Glass Service (GS) will organise the 15th International Seminar on 'Furnace Design – Operation and Process Simulation' on **22-23rd May 2019** at Hotel Horal in **Velke Karlovice, Czech Republic.**

In conjunction with the seminar, the ICG Technical Committee 15 & 21 Meeting and GS Glass Furnace Model (GFM) User Meeting will be held on the 21st May.

Topics will focus on energy consumption and savings. This will include:

- Application of modelling – furnace design and forehearth simulation;
- modelling of combustion and electric melting;
- use of models in furnace operation and related advanced control;
- glass quality and yield improvement;
- glass forming simulation;
- CO2 reduction strategies and Industry 4.0 and hot end.

It will be aimed at those seeking to learn more about Industry 4.0 and the optimisation of glass melting furnaces with CFD simulation. Delegates can present and learn about the newest developments in the simulation of furnaces and advanced furnace control.

USTV



The seminar will focus on presentations that provide solutions to reduce CO2 emissions by 40% or more by the year 2030, following the Paris Climate agreement. The event takes place every two years and brings together more than 150 glass experts from around the world to discuss the use of simulation and control tools, with the goal of optimising the glass melting and forming process.

21872/Press Release – 2019.02.01

GPD Finland 2019

The Glass Performance Days (GPD) event in 2019 will celebrate its 27th year of service to the glass industry, **from 25 to 28 June 2019**.

The final program of the conference is available and registration is now open.

With over 180 presentations given via workshops, conference sessions and the step-change program, attendees will be in for a treat.

Presentations in the opening ceremony will be graced by the following professionals:

Mr. Stefan Blach, Studio Libeskind

Mike Pilliod, Director, Tesla

Dr. Sener Oktik, CTO SISECAM

To access the program, click the following link: [GPD Finland 2019 Final Program and Timetable](#), by scrolling up and down the page, it's possible to see and access content of the different activities of the event.

21873/Press Release – 2019.04.01



ICG -11th Workshop Montpellier (France) 8-12 July 2019

The 11th workshop for new researchers in glass science and application is to be held in **Montpellier (France) 8-12 July 2019**.

The 11th workshop for new researchers in glass science and application will be composed of two interwoven threads.

The first thread will overview fundamentals in glass science emphasising structure-property relationships, experimental techniques, material simulations and tools that probe structure. Specific properties and applications will be discussed e.g. optical behaviour, transport phenomena, nucleation and crystallisation, and strength.

The second thread this year will focus on glasses for hazardous waste immobilization, to echo the importance of the nuclear industry and other significant areas of waste disposal. Attention will be given to glass formulation and structure, long-term corrosion behaviour, as well as melting technologies for nuclear waste glasses. The lecturers will be world experts in their fields. A significant aspect of the workshop will be student-centred projects that will help participants to develop their understanding by applying what they know to specific issues.

A more complete programme is available on ICG website: www.icglass.org

Participation will be limited to 20 Glass Applications and 30 Glass Science applicants.

Pre-registration deadline 15 April 2019 by email to verres2019@mycema.fr.

Registration deadline 15 May 2019.

21874/Press Release – 2019.03.05



Society of Glass Technology



SGT special conference on raw materials for glass making

The Society of Glass Technology is holding a special conference on Raw Materials for Glass Making in **Cambridge, UK 1–4 September 2019**.

The conference will feature dedicated sessions on particular glass ingredients as well as the batch as a whole.

The first speakers have been recently announced.

- Hans van Limpt of Sibelco will give an overview of the silica sand situation and future glass industry requirements.
- Tom Paterson the managing director of Fife Silica Sand and will discuss its contribution to the UK glass sand market.
- Diego Zurolo, General Manager of Loch Aline Sand Mine (LQS) will present a report about the position of LQS regarding the supply of their well-known high-quality sand.
- Professor Chris Rayner of C-Capture a branch from Whiterose.ac.uk a consortium consisting of Leeds, York and both Sheffield Universities, will speak about the CO2 stripping trial being carried out at Drax Power Station, the first such full-scale project in Europe.
- Nicola Johnson of Appleby Calumite will describe the history of Calumite use in the UK and Czech Republic and its role in lowering furnace emissions.

Further contributions can be expected from British Glass (on cullet), Glass Technology Services, Ardagh, St. Gobain and FIC (electric melting) on *'is this the future and what are its implications for raw material quality and specifications.'*

The raw materials conference will run in parallel with other sessions on glass science and technology and heritage and history as part of the SGT Annual Meeting.

21875/Press Release – 2019.02.20

80th Annual Conference on Glass Problems



The 80th annual Conference on Glass Problems will be held once again at the Greater Columbus Convention Centre in **Columbus, Ohio, 28-31 October 2019**, and invites engineers, educators, students, and solutions providers working on various aspects of glass manufacturing to submit an abstract for an oral presentation at this premier industry conference.

This conference is the largest glass manufacturing conference in North America and attracts glass manufacturers and suppliers worldwide to exchange innovations and problem solutions. The conference is co-organized by the Glass Manufacturing Industry Council and Alfred University, and provides expert lectures, panel discussions and focused courses and symposia, along with exhibiting and networking opportunities.

The topics of interest for this convention broadly include glass melting & quality, combustion and heat transfer, refractories, process control, sensors and Industry 4.0, modelling of glass melting and processing, raw materials, batching and recycling, forming issues and container customization, environment safety, emissions and respirable silica, carbon reduction, energy management and electric boosting, furnace design and reconstruction, furnace life extension and maintenance and any new topics relevant to glass manufacturing.

21876/Press Release – 2019.01.08
