

## INSPIRING INNOVATIONS FOR A PROMISING FUTURE Another successful Technical Seminar



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## Editorial



**Massimiliano Bianchi**  
President and Managing  
Director Fosber

First and foremost, I would like to congratulate Mr. Marc Van Damme and the FEFCO Production Committee for putting together such a successful and inspiring Technical Seminar at the Palexpo exhibition centre in Geneva.

As President of the Fosber Group I am honoured to have the opportunity to comment on the value of the Technical Seminar for leading suppliers to the corrugated industry such as ourselves.

This unique event combines a top-quality technical conference with an outstanding exhibition, thereby attracting corrugated board producers and suppliers who score high both in terms of quantity and quality. A “win-win” formula for all the main players in our industry as we join together for three days under one roof.

As always, the technical conference tackled the most topical and relevant subjects of the day. This year there was a notable increase in interest in AI, AR, Industry 4.0, Digital Printing and not least Health & Safety.

Thanks to clever planning, all meals and breaks were taken on the exhibition floor, thus optimising traffic to suppliers’ stands. For a company like ours this gave us the perfect opportunity to efficiently network with customers, suppliers, partners and competitors.

The FEFCO Technical Seminar helps reinforce the close-knit spirit of our industry in what are now very exciting times. The war against plastic packaging grows ever stronger and over the next years our industry will justifiably benefit as a protector of the environment. This will help turbo charge paper-based packaging both commercially and from a political and social perspective. At the same time the unstoppable force of e-commerce will fuel further growth and new opportunities.

This corrugated industry of ours is very special. Together we are one family with common interests and goals, and the FEFCO Technical seminar continues to be the perfect vehicle to cement this spirit.



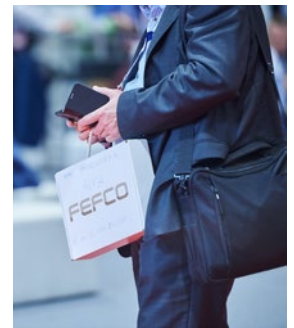
## Corrugated sector showcases trailblazing innovation at FEFCO’s Geneva seminar

During the FEFCO Technical Seminar bi-annual event, Europe’s Corrugated Board Industry and its suppliers gathered over three days (9 to 11 October at Palexpo in Geneva) and showcased its innovations in machinery, paper, converting, testing and standards. It also used this opportunity to investigate how e-commerce, sustainability, health & safety, training and artificial intelligence could support the future growth of the corrugated business.

**“We are happy to see that the concept of the conference, exhibition and spotlights worked better than ever this year. It pays off for members to be part of the most interesting marketplace in Europe.”**

Angelika Christ

The Geneva edition continued the upward trend in the 38 years of the FEFCO seminars: 1,006 representatives from the corrugated board sector took part. On the exhibition floor, there were 153 stands and 97 exhibitors advertising their products and services (up from 126 and 87 respectively from the previous event, in 2017). The programme continued to generate huge interest, with high-level speakers and 60 separate spotlights promoting technological developments from corrugated.



Jan Klingele

FEFCO President **Jan Klingele**, said the event showed how the corrugated sector was growing and adapting to a fast-moving business environment. “The

world is changing, and we are changing too. We are innovating, we are responding to consumer demands, and we are making our business even more sustainable,” he said. “The future will be great because corrugated cardboard is an excellent product.”

FEFCO organised the Technical Seminar around the theme of ‘Mastering our processes’. The conference emphasised how to take the industry to the next level, improving and innovating. Klingele joked about the idea of the master, quoting aphorisms of Yoda from the Star Wars saga, like “Train yourself to let go of everything you fear to lose” and “Always pass on what you have learned” and, “Do or do not, there is no try.”

But while he was proud of the technology on show at the event, he called for more innovation. “We are a traditional industry,” he said. “Our machine suppliers have not been innovative enough. Our machines have not changed drastically in 30 years, the basic process is still valid, but the technology is quickly adapting to new developments in the fields of data exchange, use of sensors, and the digitalisation of the processes.

The event brought together corrugated manufacturers and their suppliers from Europe and beyond to debate innovations in areas like technological developments, artificial intelligence, data handling, sensors, conveyors, and digital printing. There were discussions on how to build lighter, stronger boxes and safer and more efficient plants.

**“The future will be great because corrugated cardboard is an excellent product.”**

Jan Klingele



Angelika Christ

**Angelika Christ**, FEFCO Secretary General, said the event showed the value of bringing together corrugated manufacturers and suppliers in a single

venue to debate and network. “We are happy to see that the concept of the conference, exhibition and spotlights worked better than ever this year. It pays off for members to be part of the most interesting marketplace in Europe,” she said.

The speakers at the event demonstrated the many innovations transforming the sector while laying out the different market and regulatory challenges ahead. They looked at industry trends from digital to precision laser cutting. And they saw how corrugated can adapt to the new wave of environmental awareness and regulation to produce boxes which are sustainable, circular and optimise the use of natural resources.



Introducing the first presenter of the conference.



Any questions? Presenters respond to questions from the floor.



Bart Verbruggen

**Bart Verbruggen**, from OM Partners, looked at how smart planning and digitisation strategies could improve reliability, cost efficiency and flexibility. “Digitisation is coming fast,” he said, pointing to the dramatic rise in captured events through big data and the internet of things (IoT), as well as interconnected digitized supply chains. He advised the industry to integrate disruption detection into systems, adaptive responses to events and self-adjusting planning. “We have to implement all this into our factories, and I would advise a phased approach,” he said. “This means diagnostics, predictive analytics, prescriptive analytics, autonomous decision making, self-tuning and self-adjusting.”

### “Digitisation is coming fast.”

Bart Verbruggen



Krassimira Kazashka

**Krassimira Kazashka**, FEFCO, explained the new EU policies and their impact on corrugated. Sustainability, the circular economy and climate change are priority areas for the incoming European Commission. In 2018-2019, the Commission focused on the problem with plastic and adopted the EU’s Plastic Strategy, followed by the Single Use Plastic Directive, banning some plastic products from the market. In this

regulatory environment, corrugated packaging offers an excellent alternative to plastic packaging due to its circularity and bio-based nature.

There could be long-term problems, Kazashka warned: paper products are affected by the plastic legislation if they have a plastic layer and the future bears the risk of regulating more single use (i.e. one-way) products. Paper packaging is currently recycled above target with a 82.1% recycled rate in 2017. At the same time, the recycling is committed to do more: it issued new Food Contact Guidelines this year and updated its Good Manufacturing Practice. “We should be proactive and think out of the box to raise the confidence in corrugated as a sustainable packaging solution”, said Kazashka.



Marek Motylewski

**Marek Motylewski**, of Mondi, explained the latest innovations in ensuring corrugated board is as flat as possible. “It is easy to produce flat corrugated board. It is all about temperature, moisture, paper tension and paper grade,” he said. He said thermovision cameras were essential to check the temperature of the hot plate. Motylewski warned that most problems arise from uneven moisture. “When we know the level of the temperatures along the corrugator, the temperature profiles at the most important places of the corrugator, the distribution of the temperatures along the hotplate and the moisture profiles on both sides of the corrugated board, we can better control the quality of the produced board,” he said.



Panu Räsänen

**Panu Räsänen**, from Metsä Board, looked at white paper parameters and what he called “the perfect linerboard”. He showed microscopic images of softwood pulp, hardwood pulp and recycled pulp fibres. And he called for more “fibre expertise”, which is when users know where the wood comes from, the chain of custody, and can control incoming pulp properties, consistency and purity. Räsänen also explained his ‘heating philosophy’: “Every aspect has to be in perfect control: materials, corrugator, running parameters, and know-how.”



Tomasz Garbowski

**Tomasz Garbowski** of Poznan University of Technology outlined how digitalization could measure the strength of corrugated materials. “We would like to get rid of trial and error methods. We would like an exact solution for any box design. That means preliminary prototyping with simulations – which means less waste and easier quality control,” he said. Garbowski said computational methods and laboratory data would be vital in future box designs, in the same way that computers are used to design cars, planes, buildings and other structures. “These computations could model almost any structure and lead to a more accurate, yet faster and simpler design process,” he said. “Computational methods save material, time and money.”

**Klaus Lüke** from Klingele laid out what the industry could expect from digital converting. "In hardware, it means no diecut or stripping tools. In processes, it means a short setup, and less – but not zero – waste," he said. There are many cutting alternatives, he noted: basic knives, oscillating knives, ultrasonic cutting, waterjet cutting and laser cutting.



Marcel Heller

**Marcel Heller** from Model explained the challenges in conventional and digital printing. "Digital printing is not yet ready to replace Flexoprint, offset and laminated," he said. Digital, Heller said, is still in the middle of its growth phase, having passed the introductory phase, but has yet to reach maturity. He predicted digital eventually getting 25% of the market.



Steve Parr

**Steve Parr** from Smurfit Kappa explained why maintenance mattered. "We should not accept it when equipment fails," he said, pointing out that 89% of breakdowns are the result of random failure. He listed the four major ways to check the health of our machines, and gave examples regarding oil, ultrasonic vibration and thermal analysis. "It is better to be predictive than to be reactive," Parr said. "Maintaining your equipment is not a choice. It is an essential part of mastering your processes. Reliability drives extended asset life."

**"It is better to be predictive than to be reactive."**

Steve Parr



Richard Jeffers

**Richard Jeffers** from RS Components demystified how artificial intelligence (AI) will play a role in managing processes. "All you are doing is collecting data, using it for decisions, and driving activity," he said. Jeffers depicted a maintenance journey of a fictional factory manager, who describes a problem, diagnoses it, predicts a solution, and then prescribes it. As for AI, he said it can be applied to the system to eliminate time-based maintenance, reduce early life failure and transfer knowledge through support tools. But Jeffers said AI had to address two issues before being deployed: cybersecurity (you need penetration testing) and legacy systems. "It is a massive behavioural change," he said.

### Sponsored by Metsä Board



Veijo Korkalainen welcomes delegates to the opening Cocktail. The reception was kindly sponsored by Metsä Board, a leading European producer of premium paperboards.



### Workshop HP



HP leads a discussion on technical developments and market trends in their sponsored workshop.





The people who made it happen. FEFCO Production Committee with Jan Klingele (left side), Krassimira Kazashka and Angelika Christ (on the right).



Michael Frey

**Michael Frey** explained the new FEFCO Folding Specification TS 0702. It now sets the measuring position for acceptance tests in a range of 0 to 25mm from the outer edge. The test methods include conditions like a board warp maximum of 2% of the sheet length. TS 0702 details how to measure the gap and lists recommended measuring devices, including laser measurers. “TS 0702 with the statistical tool significantly improves the measurement and analysis of gap variation and fishtailing,” he said.



Astrid Odeberg

**Astrid Odeberg** Glasenapp from RISE offered the latest expertise on mastering moisture in the production process. “One of the main problems we work with is the moisture sensitivity of paper and board,” she said. She showed images of a cross-section of fibre, showing how increasing moisture content breaks the hydrogen bonds. She finished by explaining how to put in place the right countermeasures, and the latest new concepts to master moisture.



Thomas Gude

**Thomas Gude** from SQTS examined how digital printing could affect the food in contact with the printed boxes. “The migration from printed, glued and recycled cardboard cannot be avoided. It is

a risk for consumers, and for producers,” he said. While there is no specific harmonized EU measure regulating food contact paper and board, he said that does not mean the industry can ignore the issue. The test results – which he emphasised were based on worst case simulations – showed how the risk of migration increased when the temperature of the package environment was raised and how long the food was kept. FEFCO itself has a project on digital printing whose goal is to define a new testing method.



Santiago Soria

**Santiago Soria** from DS Smith looked at how e-commerce is changing the packaging sector. He expects global e-commerce to be worth \$5.2 trillion by 2022, following double-digit growth every year. Some 80% of the market for delivery packages is corrugated, he said. Specific solutions need to be developed for challenges such as returns, oversized packaging, sustainability, operational costs, and managing customer experience. Soria referred to DS Smith’s Empty Space Economy Report which last year stated that over a third of packages shipped worldwide are at least double the size of the actual product inside. But he said the e-commerce sector is also developing sustainable packaging innovations. For example, Box Suite optimization uses algorithms to define what is the right number of boxes and what the dimensions should be.



Outi Marin

**Outi Marin** from Smurfit Kappa explained why sustainability is an essential part of the corrugated business, and pointed to the new environmental demands, personified by schoolgirl activist Greta Thunberg. Marin said businesses also had to deal with sustainability demands from customers, investors and regulators. “We are not good at data and transparency with regards to the supply chain footprint,” she said.



Stefan Buchner, Sabine Nellen and Richard Lancaster

The session on machine safety was shared by three presenters. **Stefan Buchner** from SKG explained the company policy which involves sharing accident reporting, collecting safety statistics and sharing good practices. **Sabine Nellen** from Mondi noted that the main accident types in the corrugated business are slips, trips and falls (STF), with injuries ranging from bruises to complicated fractures. She said there is a hierarchy of safety control measures: elimination, substitution, engineering controls (segregate risks), and administrative controls (minimize materials in the workplace). **Richard Lancaster** from VPK

spoke about machinery safety, explaining that it needs to be a partnership between the machinery suppliers and the end user. He appealed for people and companies to share information about known accidents and safety problems, and he pledged that the reporting company would remain anonymous.



**Dominique Ravot**

**Dominique Ravot** from Dücker, explained the sensorless muting solution for safety fencing in a presentation that won the FEFCO

Health and Safety Award. While today's machinery has sensors placed in front and behind the light barriers, Ravot said that tomorrow's systems would not have sensors to control the muting of the light barrier, with controls instead done through the Process PLC. This is a safer solution, he said, because it has a continuous light barrier, a light barrier integrated in the construction of the fencing, and control of the manual mode is located in the area.

The session on training employees was a four-person presentation. **Pawel Rogalka** from Aquila VPK explained the good practices workshops that had gathered



**Pawel Rogalka**



**Semih Çelebi**

68 participants in 2019, up from 67 in 2018. **Semih Çelebi** from IP outlined the Operator Training Program in IP Turkey, which aims to increase safety culture, improve employee engagement and boost customer satisfaction. **Klaus Lüke** from Klingele talked about his company's three-year training programmes, equally



**Klaus Lüke**



**Ulrich Wolz**

theoretical and practical, for positions as machine operators, converting design, or in the laboratory. And **Ulrich Wolz** from Bahmüller spoke about the Bahmüller apprentice programme for mechanical engineers, electricians, process engineers and IT administrators.

**Greg Tucker**, from Bay-Cities, explained the big picture of a fast-changing market being overhauled by fast-changing technologies. For example, stores now use eye tracking to see how people respond to displays.



**Greg Tucker**

Experiential and interactive packaging is emerging to drive fun into the package. He explained e-commerce characteristics that were making the

online buying process more like real-life – reducing the 30% of returns for all products ordered online (which rises to 50% in clothing).

### Panel discussion

The final day high-level panel discussion, "Looking into the future: turning challenges into opportunities", gathered five experts in the packaging field.

Jan Klingele FEFCO President said the industry had to improve safety. "We have to change behaviour. And we have to understand the many ways how costly accidents are," he said. He also urged the sector to be more innovative, also in sales and recruitment. "We should have industry-driven programmes to attract younger generations," he said.

Greg Tucker from Bay-Cities said the future of digital technology lay with personalisation and customisation. "It is getting faster and faster, better and better," he said. "What we can do with a hunk of paper is incredible."

Lars Engel from BHS said the industry had to adapt faster to changing

demands from buyers. "We try to listen to our customers, and where they want to go," he said. He also urged the industry to go even further in its drive towards sustainability.

Richard Coward from Rigid said the industry had to do more to attract new talent. "We have failed big time to encourage diversity: youth, women, minorities," he said. "We need to ask how we can bring the brightest and best in."

And Sarah Model from Model appealed to the industry to do more to attract women. "It starts with apprentices. It includes sponsorships and the 'bring your daughter to work day'," she said. "Last year I heard someone say, 'She can't do it, she's a woman'. And people ask me if I do marketing or HR – which I find offensive. We need a culture change."



From left to right: Greg Tucker, Bay-Cities - Lars Engel, BHS, Sarah Model, Model - Jan Klingele, FEFCO president - Richard Coward, VPK Rigid (Moderator)

## Corrugated champions celebrated with FEFCO awards in Geneva

FEFCO Secretary General Angelika Christ said the awards showed how fast the corrugated industry was moving to stay ahead of the latest developments in technology, business and society. "This is an industry that is adapting and evolving. As these awards show, we are developing new ideas to make corrugated more efficient, more creative and more sustainable than ever before."

FEFCO, the European Federation of Corrugated Board Manufacturers, presented seven awards at the end of the three-day event in Geneva.

The most prestigious FEFCO prize was for **Best Innovation**. The **Gold Award** went to **Macarbox** for the development of a new machine for toolless cutting, a novelty in the corrugated industry. The laser cutter and creaser combines perfectly with digital printing, and allows the industry to operate in extremely short lead times.



Macarbox

element in accident prevention as many incidents can be prevented by designing, installing, operating and maintaining safer machines.

The **Sustainability Award** went to **Lemtapes** for the replacement of plastic tapes with cellulose-based tapes.



Dücker



FEMAT

The **Silver Award** went to **FEMAT** for the development of software that predicts the strength of the boxes, thus reducing both testing time as well as manpower, energy and materials needed.



Lemtapes

The **Best Presentation Award**, out of some 60 six-minute spotlights delivered during the Geneva seminar, was won by **Robert Karimov**, from **Karimov**, who was praised "for explaining complicated things in a simple, entertaining way".

The **Bronze Award** went to **Engico** for the presentation on "the Dual size changes paradigm in corrugated" which combines two machines in one and offers fast change and production flexibility.



Engico

And the most **Inspiring New FEFCO Member Award** went to **AVCO**, who developed a camera inspection system with many applications.



AVCO



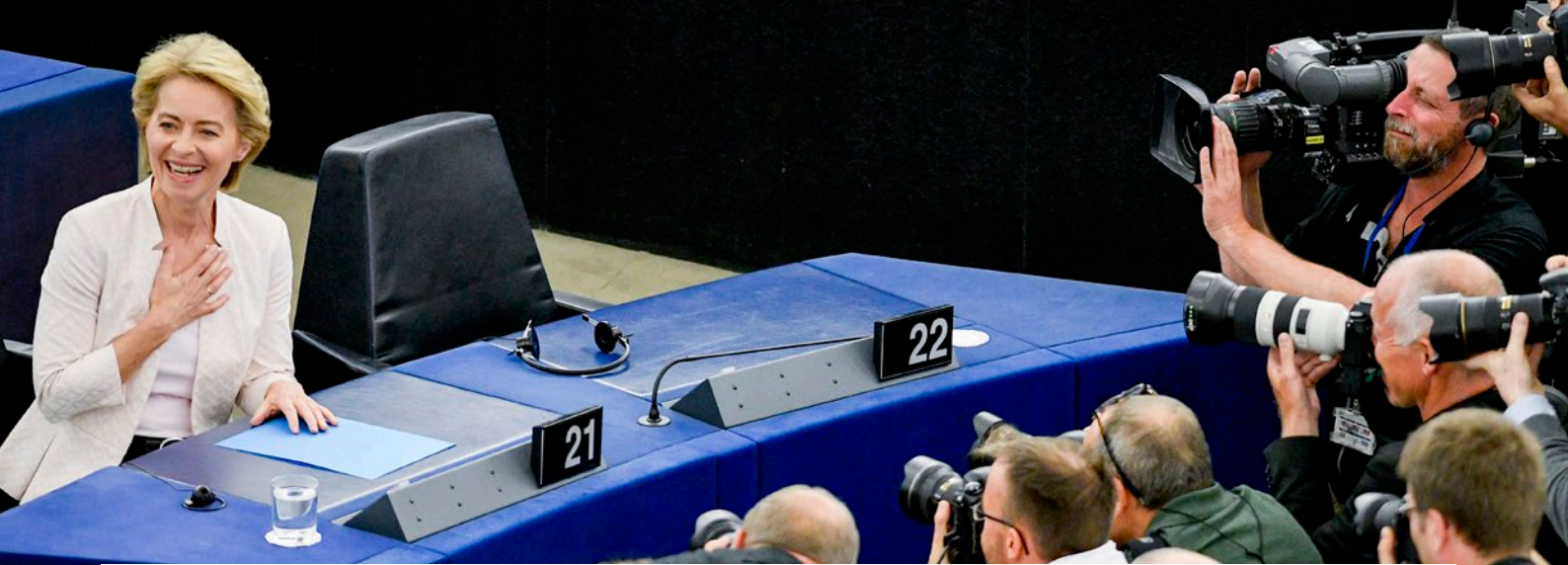
Karimov

The **Health and Safety Award** was given to **Dücker**, for Sensorless Muting Solution for Safety Fencing. This rewards the improvements made in machine safety. This is a crucial

FEFCO also announced a **Lifetime Achievement Award** for **Norbert Städele**, the recently retired managing director of BHS Corrugated. He was honoured for his work "in realising concepts and development on the corrugator. These developments enabled substantial improvement of productivity and turned trends into reality such as lightweight papers, automatization 4.0 and the integration of digital printing on the corrugator."







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## EU Activities

**The European Union is entering a new political and policy mandate for 2019-2024. The European Parliament started this renewal in the May elections when 60% of the 751 seats contested were taken up by new MEPs. This brings new ideas and challenges to the Brussels policy making environment.**

The new European Commission term is expected to start on 1 December, when all Commissioners will have been approved by the European Parliament. Ursula von der Leyen (German) is the new President-elect and will lead a College of 27 Commissioners, nominated by the Member States.

The political guidelines for the new European Commission 2019-2024 set ambitious targets. A top priority remains climate change and resources. The Commission's President wants Europe to *"strive for more by being the first climate-neutral continent"* and will propose a European Green Deal. This is expected to be a huge package of measures comprising the first European climate-neutrality law, extending the emissions trading system and introducing a carbon border tax. In addition, it will include a green financing strategy and a new industrial strategy. With it will come a new Biodiversity Strategy for 2030, a new "Farm to Fork" strategy for sustainable food and a new Circular Economy Action Plan with a focus on the sustainable use of resources. Europe has the ambition to be a global leader on resolving plastic

pollution and the next hot topic seems to be microplastic.

The Commission will also work on social fairness and overall prosperity. They will propose a dedicated strategy for SMEs to make it easier to operate and innovate. Among social measures, a new law will ensure that *"every worker in our Union has a fair minimum wage"*.

All these measures will certainly have an impact on corrugated packaging and its supply chain. FEFCO is closely following policy developments related to corrugated and is prepared to act rapidly when needed.

While the political level was being formed, the Commission was actively working to complete the package of legislative acts under the waste legislation adopted in 2018 and the Single Use Plastics Directive 2019.

The review of the Essential Requirements for packaging is ongoing and the new rules will define the future of the single market for packaging and packaged goods in the longer term. There is a major emphasis on recyclability of materials and de-facto recycling of packaging.

At the same time, the new rules for Extended Producer Responsibility schemes are being defined with a strong focus on recyclability and recycling. Packaging that demonstrates high levels on both aspects will benefit from the eco-modulation approach and vice versa.

Corrugated packaging is very strong on recyclability, actual recycling and the use of recycled fibers. We must maintain this and aim for as high performance as possible to ensure that corrugated has a stable position as a future-proof sustainable packaging solution.

The Commission continues to work on food safety, although it seems unrealistic to expect a specific EU regulation for paper and board soon. At the same time, the national rules remain fragmented. Therefore, the review of the EU Framework Regulation on food contact materials is extremely important as it will set the frame for all materials and articles used in food contact applications, including corrugated.

The paper & board value chain, including FEFCO, issued a new Food Contact Guideline in March 2019. It aims to support the efforts of companies to ensure compliance with the complex food contact requirements and to increase market and consumer confidence in paper packaging as a safe solution.

In 2020, FEFCO will continue to engage in policy developments and debates at the Commission and Parliament to protect the interests of the corrugated industry. We will focus on the essential requirements for packaging review, the single-use plastic guidelines, the food contact legislation review, the issue of microplastics and anything new that may come along.

# CPI UK Event Helps Keep Paper Industry People Safe, Motivated and Informed

Over 240 delegates, drawn from Members of the Confederation of Paper Industries (CPI), engaged with experts on a myriad of industry specific issues at the trade association's Biennial Health, Safety and Industry Conference 2019 in Kenilworth on 9 July.

Designed to encourage discussion and the sharing of best practice, the event had a Health and Safety programme at its core, with a wider Industry programme running alongside which included energy, environmental, diversity and supply chain topics.

Miles Roberts, Group Chief Executive of DS Smith set the tone of the conference with his opening keynote address, and Martin Temple CBE, HSE (The Health and Safety Executive) Chair, officially launched the new PABIAC Strategy 2019-2023 'Health, Safety and Wellbeing – Hearts, Minds and People'.

In one of the breakout sessions we focussed on the future of paper packaging in food contact applications. We were pleased to have Krassimira Kazashka introducing the new Food Contact Guidelines, and the Food Standards Agency (FSA) were also present to comment on developments in UK, particularly around Brexit. Not only were we able to inform Members about the advances in this important area, the event also provided an excellent opportunity to engage directly with FSA. Since then we have held a further meeting



Andrew Large - Director General CPI

with FSA in which they confirmed their support for the Guidelines.

Alongside the conference, there was a very busy exhibitor area which delegates flocked to during coffee and lunch breaks.

In his closing remarks, Richard Coward, CPI President said: "As an industry, we must continually make the case for paper as a responsible partner, with products and processes that are environmentally and socially sustainable. Paper is a key

player in the bio-economy, recycling and circular economy debates.

Commenting on this year's conference, Andy Braund, CPI Director of Health and Safety said: "With so many issues of importance at the forefront of people's minds, we set out to deliver a conference that would attract delegates from all levels of the industry and to put delegates in touch with the regulators and policy makers."



Exhibition - CPI Health, Safety and Industry Conference 2019



Krassimira Kazashka, FEFCO Technical Director



## Paper Presents: innovative and circular solutions for consumers

**On 4 September, CEPI, FEFCO, ACE and FEPE organised an interactive exhibition and event called Paper Presents to introduce the paper and board industry to the new members of the European Parliament (MEPs). Along with several national paper associations, the exhibition highlighted the versatility of paper products, plus innovation and circularity which are at the core of the industry.**

"These are themes that CEPI and the co-organising partners have in common. Renewability, recyclability and the ability to mitigate climate change. We are proud to share these qualities with society," said Jori Ringman, CEPI Director General.

The exhibition showcased ingenious and innovative paper and forest-fibre inventions. The Tree-Shirt was a great example. Tencel Lyocell fibres from sustainable wood sources are used to make textiles and thus, clothing. The fibres are produced in an environmentally responsible closed loop process, with high resource efficiency and low ecological impact.

Innovations in packaging were also on display, including Landbox Straw which, using organic, recyclable and hygienic materials, acts as a shock absorber for products during transit. Stretching Inner part, a bio-based and recyclable packaging material that protects fragile goods in transit, was also on display.

There were also paper and board innovations for the food and drink industry. For example, Wetclar paper straws are made of virgin fibres produced specifically for food contact making them a great alternative to single-use plastic ones. Participants could taste water from beverage cartons, a new segment driven by consumer demand for environmentally friendly products.

A key fact about the paper and board industry - and the products made from the materials they produce - is that it is a champion of the circular economy. Recycling rates are the highest in Europe.

"Our material is circular by nature. It is 100% recyclable and what's more: it is recycled all over Europe, unlike other materials" said Angelika Christ, FEFCO's Secretary General.

Lisa Kretschmann, Managing Director of FEPE, which represents the European

paper envelope manufacturing sector, spoke of the benefits of paper products for European citizens: "Envelopes and mail are not just the only way to reach citizens in all corners of the EU. For 60-80% of them, they are also the preferred means to receive important information."

The paper and board industry is committed to supporting forest growth in Europe. Annick Carpentier, ACE Director General, announced that for every guest who attended the Paper Presents event, one tree will be planted. "This is one more reason to say thank you to everyone who joined us tonight."

The innovations within the paper and board sector continue to meet increasing consumer demand for sustainable products. We are committed to being responsible and active partners in the circular economy and we will continue to keep MEPs informed of developments in our sector.

Follow CEPI Paper, FEFCO, ACE and FEPE on social media or online news for regular updates.

CEPI - The Confederation of European Paper Industries

FEPE - The European Federation of Envelope Manufacturers

ACE - The Alliance for Beverage Cartons and the Environment



From left to right Jörgen Warborn (MEP) Jessica Stegrud (MEP) - Anna Holmberg Swedish Forest Industries Federation

# FEFCO activities

## New Sympathiser Member

A big Welcome to our new member who has recently joined FEFCO

- J.S. Corrugating Machinery Co. Ltd  
China  
[www.jspackmach.com](http://www.jspackmach.com)
- TCY - Tien Chin Yu Machinery Mfg. Co. Ltd.  
Taiwan  
[www.tcy.com](http://www.tcy.com)



## New Folding Standard

The New Folding Specification with statistic tools will soon be available on the FEFCO website. This is an update of existing folding standards which are part of "FEFCO Converting Equipment Technical Specifications". The work was done by a dedicated FEFCO workgroup involving corrugated production experts and suppliers of flexo folder gluers. The new TS 0702 will support and improve the measurement of gap variation and fishtailing of regular slotted boxes on flexo-folder gluers. It sets mandatory conditions for machine acceptance, explains where and how to measure and provides a common template for test documentation and statistical evaluation of test results. The tools are made for easy and immediate use at plant level to ensure optimal box quality.

# Events

## FEFCO Summit 2020

Save the date!  
27-29 May 2020  
NH collection Barbizon Palace  
Amsterdam, The Netherlands

## Fruit Logistica

5-7 February 2020  
Messe Berlin, Germany  
[www.fruitlogistica.com](http://www.fruitlogistica.com)

## EUROSHOP 2020

1st retail trade fair  
16-20 February 2020  
Dusseldorf Germany  
[www.euroshop-tradefair.com](http://www.euroshop-tradefair.com)

## PACE

Packaging and Converting  
Executive Forum  
11-12 March 2020  
Vienna, Austria  
[www.arena-international.com/pace](http://www.arena-international.com/pace)

## Leaders in Logistics: Post and Parcel Summit

23-24 March 2020  
Tivoli Congress Centre,  
Copenhagen  
[marketforc.live.com/leaders-in-logistics](http://marketforc.live.com/leaders-in-logistics)

## Empack 2020 Utrecht The future of packaging technology

31 March-2 April 2020  
Jaarbeurs Utrecht  
[www.empack.nl](http://www.empack.nl)



**Season's greetings  
and happy new year!**

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