

ESMA PAVILIONS AT GLASSTEC AND K | THEIJC GAINS MOMENTUM | HSEP BULLETIN |
ESMA PAVILION AT FESPA 2017 | CONSUMER GOODS HACKATHON | PARTNER EVENTS



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Industrial printing meets glass and plastic

ESMA exhibits at glasstec 2016 together with ten and at the K show with three member companies. The member pavilions showcase the newest screen and digital decoration supplies and technologies for different applications on glass and plastics.

With the increasing range of applications that integrate speciality and functional printing on glass, the composition of ESMA pavilion at glasstec (20-23 September 2016 in Düsseldorf) changes as well. In comparison to the last exhibition in 2014, three new companies are participating and two joined the pavilion specifically because of the stronger group image. "Glass is regaining its importance for printing and not only in terms of surface decoration for flat and hollow products. Today, glass becomes the perfect match for printed electronics, unlocking new applications and new possibilities. The revolution sparked by ultrathin glass and non-contact printing techniques means that also digital inkjet has a lot to offer in the glass industry," says Peter Buttiens, CEO of ESMA.

ESMA organises its pavilion for the fourth time and the three islands in hall 12 feature following member companies: Gallus-Heidelberg (booth C49-2), KIWO (D49-4), Machines Dubuit (C49), Pröll (C41-1), PVF (D49-2), RUCO (C41-2), Saati (C49-1), SPS Technoscreen (C24), Sun Chemical (D49-3) and Tiflex (D49). Although the majority of those companies specialise predominantly in screen technologies, everyone interested in the advancements of digital inkjet printing can step by the ESMA booth (D49-4) to talk to our experts from this domain and gain updates on The Inkjet Conference. One of the test printers from The Inkjet Training course is on display at the ESMA booth, as well.

At the world's no. 1 fair for plastics and rubber, K (19-26 October 2016, Düsseldorf) our pavilion in hall 4, C63, hosts Gallus-Heidelberg, Marabu and Sun Chemical demonstrating their expertise in respectively equipment, inks and coatings for industrial printing.

Everyone who passes by the ESMA booths at both shows can count on specialist advice offered by the Expert Team and directed for specific market sectors, including topics such as colour management and profiling for industrial decoration, speciality chemistry, advanced materials or inkjet system design. Visitors will also receive updates on the upcoming Direct Container Print (27-28 November 2017 in Düsseldorf) and GlassPrint (29-30 November 2017 in Düsseldorf) conferences, the latter co-organised by ESMA and "Glass Worldwide" magazine.



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TheIJC 2016 gains momentum

6 workshop sessions, over 50 presentations and almost 70 tabletops – The Inkjet Conference once again fills Swissotel Düsseldorf with developers, technologists, scientists, researchers, chemists and innovation managers. The world's largest inkjet event takes place on 4-6 October 2016.

Whilst drupa 2016 is behind us, the wheels of innovation keep turning. We see all aspects of print and pre-press evolving into a single system. Breakthroughs in chemistry evolve into new ink sets, advances in computer science improve image quality, new image inspection systems create opportunities for functionality and control. And of course inkjet printheads are still at the core of digital print and here we see new product launches and better understanding of integration.

TheIJC showcases inkjet processes ready for various types of applications, with a special focus on industrial sectors such as packaging, corrugated board, direct-to-shape, labels, ceramics, textile, laminates and flooring, printed electronics or additive manufacturing. Both top technology suppliers and users meet at the conference to follow dozens of technical talks and benefit from unique networking with hundreds of attendees.

TheIJC conference opens on 5 October 2016, preceded by inkjet workshop sessions the day before. The workshops are free for conference delegates. More info and registration at www.theijc.com

CLP Labelling of Transport Packaging – CLP Article 33(2)

HSEP News Bulletin by Gabriele Heller, the Product Safety Manager of Marabu, chair of ESMA Health, Safety and Environmental Protection Committee.

CLP Article 33(2) requires that the outer packaging of a package not subject to labelling according to the rules on the transport of dangerous goods must be labelled in accordance with CLP regulation's requirements. This requirement particularly is problematic for suppliers using one transport package to send different products with different CLP classification, but not requiring TDG labelling to their customers, as they would have to label such a package with all labels of the products contained.

Many printing inks are not subject to transport of dangerous goods regulations, but nevertheless have to be classified as hazardous according to CLP and thus require an according label. Also, it is not unusual that customers order more than one or two different products, but only one or two containers of each of those products. Thus a transport packaging destined for a certain customer often contains a certain number of products with different CLP classification and labelling. In this case, the transport packaging, according to the current requirement of CLP article 33 (2), has to be labelled with all labels affixed to the containers inside the transport package. This requires the labels and the information on which labels have to be affixed to be available at the packing station, and also additional work for the related stuff to affix those labels, resulting in higher costs for packaging and transport.

For distributors the problem is even worse, as usually they do not have access to CLP labels for all products they store and distribute. For this reason, the CASG-LG (Competent Authorities Sub Group on Labelling and Packaging) has drafted 2 proposals in June 2016, intended to solve these problems.

The first proposal recommends to explain in the relevant guidance document that the „outer packaging of a package“ as referred to in Article 33 (2) of CLP regulation means the outermost layer of the packaging intended/used for supply purposes and which remains when removed from transport packaging. A packaging, however, that is used only for consolidating different products for the purpose of transportation is out of the scope of CLP and thus does not require CLP labelling.

The second proposal suggests to include a new sub-paragraph in the Article 29 of CLP. Article 29 contains the exemptions from labelling and packaging requirements. This new sub-paragraph is to allow exemption from the requirements of article 33(2) for a distributor in general, and for a supplier if he puts different hazardous substances in the transport packaging that require two or more different labels.

The second proposal, however, still presents certain difficulties. As distributors are in general exempted from the labelling requirement of article 33(2), whilst suppliers still have to comply with the requirement if they put only hazardous products together in the packaging requiring the same CLP label, actors within the transport chain may think that the package labelled according to CLP contains products that are much more hazardous than an un-labelled package is. This may lead to confusion, creating doubt and even delay within the transport chain.

The differentiation between suppliers and distributors with regard to transport packages containing only substances requiring the same hazard labelling would also create new complexities in the case where an actor in the supply chain has the role of both distributor and supplier simultaneously, e.g. where he consolidates or de-consolidates goods from other suppliers into a new transport package and also adds a hazardous product that he has manufactured or imported himself. Difficulties are foreseen for companies in interpreting how to comply with the obligations, but also for authorities in enforcing them.

These concerns have been submitted by DUCC (Downstream Users of Chemicals Communication Court) to CARACAL (Competent Authorities for REACH and CLP). Now it is up to CARACAL to decide on the proposals.

The next HSEP committee meeting takes place on 11 November 2016 in Barcelona. All ESMA members are welcome to participate in the committee meetings and benefit from sharing Information, knowledge and working together to manage complex regulatory issues. Please contact us at info@esma.com to register your attendance.

New communication channel

ESMA Online Forums

Following the request of ESMA committee members, we have opened internet forums for the HSEP, TEC and Marketing & Promotion topics. The forums are accessible for all ESMA members and moderated by the committee chairs. Navigate to the committee page on the ESMA website to access the forum, post questions and discuss answers in specific categories.

Also the ESMA Expert Team, successfully inaugurated at drupa 2016, has got its own forum, available publicly for all questions from the printing industry. This forum is accessible via ESMA website, as well.

ESMA pavilion at FESPA 2017

Special exhibiting conditions are offered to ESMA members at FESPA 2017 (8-12 May in Hamburg). Our pavilion in hall 4A has still spaces available for smaller stands. Hall 4A will showcase the expansion of printing for industrial applications with among others packaging, direct to shape and printed electronics. Contact us at info@esma.com to discuss all available options.

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glasstec: hall 12, booth D 49-4

TheJJC: booth B 15

K show: hall 5, booth A 01



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Member Newsflash

Decorative sputter coating

KIWO's newest innovation is an inkjet resist for partial sputtering (PVD) of architectural and interior glasses. The resist is compatible with large format digital printers for the flat glass industry, which opens up many new opportunities.



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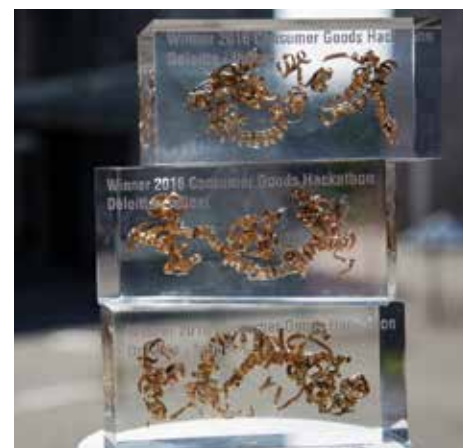
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Peter Buttiens was part of the winning team at the Consumer Goods Hackathon organised by Deloitte in sponsorship with i.a. P&G and ABInBev. During the 48-hours event held in Brussels, the team consisting of representatives of ESMA, SuperStrong, Saueressig and coached by Damien Jourdan from Danone, developed a concept around innovative packaging. The idea of a premium beer bottle "Be(er) unique" included digitally printed labels combined with NFC technology. The label was unique on each bottle but the difference could only be told with the use of imaging software. Once scanned, a potential prize could be claimed. Furthermore, the label unlocked gamification options and information about allergens, ingredients, food pairing etc. An additional feature, enabled by hidden print with thermochromic inks, indicated the bottle's temperature, respective taste experience and serving suggestions. More information at www.consumergoodshackathon.com



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- 1 If you are a manufacturer and your company's sales turnover exceeds €5 million per year, the full ESMA membership fee is €3 900 per year.
- 2 If your company's sales turnover is less than €5 million per year, the fee is €2 000.
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European Textiles: Going Digital – Going High-Tech

12-13 October 2016, Brussels, Belgium

International conference to launch the new Strategic Innovation and Research Agenda for the European textile and clothing sector and to showcase the high-tech materials, advanced production technologies, new business models and growth markets for the textile industry of the future. Event sessions will be dedicated to key technology developments in fabric formation, textile surface processing and assembly and fashion production. Speakers will explore key technical textile application areas such as construction, health care, sports, protection, environment and agriculture. The event brings together industry innovators, technology providers, researchers and clusters.

www.textile-platform.eu



The Inkjet Training Programme (TheIJT)

14-18 November 2016, Fribourg, Switzerland

TheIJT at the University of Fribourg is now well established as the leading provider of practical inkjet training. Limited to 18 participants, this lab-based course covers all aspects of inkjet engineering and inkjet chemistry and gives participants the opportunity to experiment with many different printheads and print set-ups.

www.theijt.com

Winter School Functional Coatings

28 November - 2 December 2016, Hasselt, Belgium

Organised by the University of Hasselt, the winter school offers both an academic and industrial view on the complete value chain. On the first day, academic lectures from experts on materials, synthesis and deposition of applications will guide participants through the variety of materials to be used for diverse functional coatings. The second day will focus on the industrial applications that can be achieved from these materials. Experienced speakers will cover the field from self-healing coatings over superhydrophobicity towards bio-related coating applications. On the last day, PhD students and postdocs will present their research and a brokerage event will be organised with one-on-one meetings between coating experts.

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CORNET project “PAPERONICS” – call for partners

A new opportunity to add value to packaging is the combination of low cost technologies such as printed sensors, RFIDs and printed solar cells on paper. In this way, smart packaging with following properties can be achieved:

- Printed sensors for temperature, humidity and touch monitor the environment of the packaging throughout the supply chain. They allow intelligent packaging functionality and consumer interaction.
- Light emission after activation attracts customers and provides information.
- RFID enables logging, tracking, tracing and data transfer.
- A printed solar cell on paper provides energy and can load energy storage devices such as printed batteries and capacitors to increase the range of data transfer and store logged data for a longer time.

PAPERONICS will bring all these technologies together. The project will show the user committee the versatile possibilities that can be achieved with functional printing on fibre-based substrates that can give companies a step ahead in innovation of their products or creation of new products and entering of new markets. The companies will combine their knowledge, together with the research institutes, to create smart prototypes. In PAPERONICS four institutes (Fraunhofer IVV, TU Chemnitz, IMEC and Hasselt University) will cooperate and will bring in their partner companies. Companies and research institutes interested in partnership should contact Prof. Wim Deferme at wim.deferme@uhasselt.be