

DELHI *printer*



AUGUST 2018

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Ink Printing**
A colour changing technology

**How To Identify
A Bad Print Job**

**Finalisation of
Accounts in GST Era:**
An Advisory



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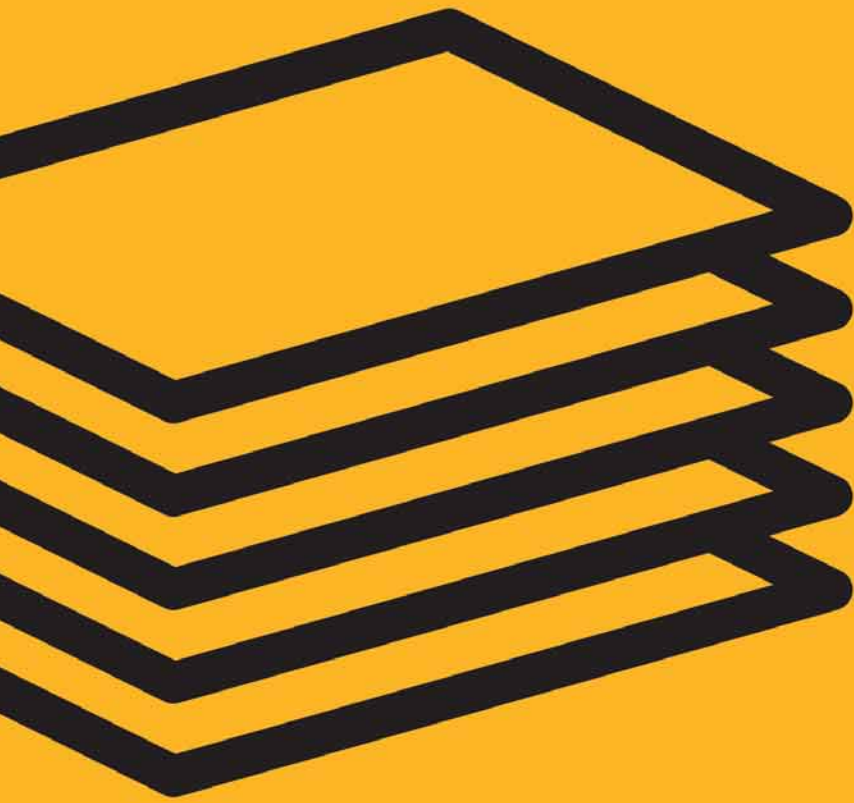
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Editor:
Veerendra Malik

The Rupee is in a free fall and its declining value has severely impacted the prince of all imports. For the printing industry it is a major setback for it has brought the ever increasing paper prices to a new high. In a time of diminishing print runs due to smaller budgets for print publicity this can prove a death knell for the mid-level printer. It is not just the paper but ancillary products and services too are going towards North with the petrol and diesel shooting up. So where do we go from here?

The time has come for printers to uniformly increase their rates, not undercut and give viable options to the print buyer without compromising on the diminishing profit margins. The keyword to success lies now in higher efficiency, whether it be in labour, print wastage or print turnaround time. Rates of binding, lamination and other add-ons need to be standardised. We should use this glitch as an opportunity to unify and specialise.



Associate Editor:
Sunil Jain

YOU ARE GOOD; CAN YOU BECOME BETTER

Everyone of us is good enough in our own ways. We all have the basic raw material inside of us to be the best person itself. It is just the combination of our circumstances, inner strength and resilience that shapes our character. Even the best among us can evolve further without changing our core beliefs. Life is one long process of education and we all can gradually proceed from one level to another, learning and adapting all the way. The worst obviously would be imagining that we have arrived and have nothing left to learn. The day we will stop learning, we will stop growing. The best learning experience for our industry can be had from NAEP Awards.

All India Federation of Master Printers (AIFMP) announces nation's most coveted printing awards - The National Awards for Excellence in Printing. A one-of-its-kind award that is an eloquent testimonial to companies and individuals who have enriched the Indian printing industry with their contributions. Its mission is to be India's pre-eminent organization in developing co-operation among national, regional and global print specialists in all matters of mutual interest, to provide globally relevant state-of-the-art print technology education and expertise, to develop business leaders, technocrats and entrepreneurs committed to improving the quality of human life through printing, to create truly world class print material and to encourage and recognise excellence in printing, to articulate the concerns of the printing industry at National and International fora and to work towards improvement of conditions in the Indian Printing Industry.

Madurai District Offset Printers Association, or in short MADOPA, is proud to host the 13th Edition of NAEP Awards in Madurai on 22nd December 2018. The last date for entries is 10th November 2018. Kindly send in your entries on time.

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Delhi Printer is circulated free to Association members.

Yearly subscription: Rs. 600/-

Published by Sumi Publications on behalf of Delhi Printers' Association, (owners) and printed at:

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Karol Bagh, New Delhi 110005.*

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Views expressed in this magazine are of the authors and not necessarily of the Delhi Printers' Association.

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- Neenah introduces 100% pure cotton papers



Like some other industries, printing units in Delhi have been badly hit on different fronts like Pollution, Minimum Wages and Relocation from residential/ non conforming areas to conforming industrial areas.

Members are aware that in 2004 the Printing Industry of Delhi was converted from Green to Orange category by DPCC on the ground that the contents of printing inks are hazardous. Since then it is mandatory that the cotton, with which the remnant ink is wiped from the rollers, is stored in a separate drum. Though the printers have been strictly following up this procedure, yet DPCC has not issued any directive till date about disposal of such cotton pieces despite a number of memorandums submitted by Delhi Printers' Association. Last month a delegation of DPA had met the Member Secretary of DPCC Mr. S.M. Ali to discuss about disposal of the so-called hazardous waste as well as about the difficulty in getting the Consent to Operate certificate renewed. While Mr. Ali clarified that DPCC is already in the process of developing software for online renewal, the printers' waste could be incinerated at the proposed plant which is likely to come up at Bawana by the end of the year.

The matter of exorbitantly high increase in the Minimum Wages by Delhi Government in 2016 had been challenged by a number of associations of industries in Delhi High Court. On August 4, 2018 the Court quashed the government's notifications terming them ultra vires of Article 14 of the Constitution. While the enhanced part of the wages stands withdrawn, the wages already paid at the enhanced rate cannot be recovered. Delhi government now plans to file an appeal in the Supreme Court and also adopt the wage structure fixed by Central Government for its employees.

Another burning issue in Delhi is the demolition of unauthorised contractions and the sealing of industries, including printing units, running from residential or non-conforming areas. DPA is fully seized of the situation. Invoking the Supreme Court's order of May 7, 2004, which orders closing down of all units that came up in non-conforming areas on or after 1st August 1990, the association consulted senior advocates about filing a suitable reply by those printing units which have been served with closure notices by the MCD. After getting assurance from advocates, DPA mailed a circular to members seeking response from those units affected under the sealing drive. On receipt of response from members suitable action will be taken by the association.

As regards three different rates of 5%, 12% and 18% GST on Printing, the association has submitted a representation to the Finance Minister recently pointing out that as in the case of different kinds of Paper, where there a single rate of 12% GST, the rate of GST on Printing should also be a single uniform rate.

Rajesh Sardana

BREAKING THE LIMITATIONS OF HUMAN EYE



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Autoprint's Checkmate 50 inspection system at Patwa & Sons

Vadodra based Patwa & Sons has recently installed the Autoprint Checkmate 50.

The company is a commercial printer for printing and supplying printed cartons to customers mainly from the Pharmaceutical and Engineering segments. They have now carved a niche for themselves in the field of manufacturing and supplying of paperboard cartons.

Kunal Patwa, Director Patwa & Sons says "The Autoprint Checkmate 50 machine has a very good inspection engine and has enabled us to deliver 100% error free, quality checked printed cartons to our customers. It has enhanced our capability to service our

clients faster which is a big advantage in the present day competitive market.'

"Quality first has always been our motto. To be frank, we never checked upon any other machine available in

the market as the Autoprint Checkmate 50 was a tried & tested machine with good feedback from the industry. Another main reason to invest in Autoprint was to support and promote a

"MADE IN INDIA" world class product", he adds.

Supporting this installation is the Auto Blanking Machine and an Offline UV Coating system, both from Autoprint. The printing division includes a new RMGT 920 six-colour plus coater press.

According to Kunal, their experience with Autoprint sales and service personnel has been really good. He feels they are really making them ready for the future, in all aspects with the help of technology.

Kunal concludes that with the investment in the Autoprint Checkmate 50 "It's worth the money and time spent."



Rahil (CPP) Films opts for Bobst K5 Vision for capacity increase

Gujarat based Rahil (CPP) Films has invested in its first BOBST vacuum metallizer, a K5 VISION 2450mm for the production of metallized CPP film. The firm produces metallized CPP film for the food packaging industry and supplies to both domestic and overseas customers.

The Bobst K5 Vision been designed to handle a wide variety of film types in particular thin gauge and heat sensitive films and can run at up to 840m/min, making it ideal for CPP and PE film producers. The machine which incorporates a Ø600mm drum provides better film cooling due to the increased surface area of the drum, with additional cooling provided by the 2-zone gas wedge which

provides better conduction of heat between the substrate and the drum which is important for these thermally sensitive materials.

Rahil (CPP) Films chose BOBST due to their know-how in the area of metallizing heat-sensitive films and the innovations the K5 VISION has in this area as well as the fact that they view BOBST as the best European brand of vacuum metallizers.

Mr Gaurav Mehta, CEO of Rahil (CPP) Films commenting on the new machine, said "When we decided to increase our vacuum metallizing capacity to meet demand, BOBST was our first choice due to their reputation in the industry. The machine is now installed and is running well and we are confident that we made the right decision, we look forward to continuing our relationship with BOBST in the future"

Established in 2013 Rahil (CPP) Films Pvt. Ltd supplies an extensive assortment of supreme quality CPP films. Films are manufactured from high quality materials using the most advanced machines and latest technology. The large production capacity and well-equipped warehousing unit enables supplying of films in bulk quantities which can be customized to the customers' specifications.



Industry Trends

Cosmo Films launches Cast Polypropylene metalised film

Cosmo Films has introduced a cast polypropylene (CPP) metalised film with high metal bond strength. This film has been specially designed to offer superior inter layer bond strength for making multi layer laminate structures, which in turn enhances barrier properties.

This newly developed metallised film has a High Hot Tack and Low SIT of 96 to 98 degree Celsius, which enables FFS machines to run at a higher speed. The standard thicknesses ranges from 20 to 30 microns. CPP film also exhibits superior heat seal strength of 2.5 kg/inch. Some of the typical applications of the film include biscuits and snacks, bakery products, chocolates, chewing gum, dairy products, spices etc.

Cosmo offers different variants of CPP films like transparent, white opaque and metallised for multiple applications. It provides excellent seal strength as well



as good moisture and gas barrier, making it a material of choice for converters and brand owners.

Pankaj Poddar, CEO, Cosmo Films Ltd said, 'The latest addition of high metal bond strength film has definitely expanded our CPP portfolio and we see a huge potential for this film into flexible packaging. A strong metal adhesion is critical to get good interlayer bond strength, which ultimately improves barrier properties, making it an ideal choice for food packaging applications.'

Official launch of DPA Website

Delhi Printers' Association launched its new website 'delhiprintersassociation.org' during its Executive Committee meeting held on 26th July 2018 in the presence of former presidents.

The website throws light on the history, birth, growth and major activities of the association and is full of information related to DPA, such as photos of former presidents along with their tenure, present office bearers, latest events, current issues of DPA's publications viz. Delhi

Printer and Masik Samachar Partika, contact details along with route map and photos of events hosted by DPA from time to time. The website also has a copy of DPA's Memorandum of Association and Rules and Regulations as well as its membership form.

Efforts for providing necessary data for the website were made by DPA staff - Executive Secretary H.L.Khanna, Asst. Executive Secretary Sujith S, Jagdish Chand, Durgesh Kumar and Sumesh Kumar.



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Uflex invests in Edale 10-colour FL3 press

India's largest flexible packaging company, Uflex, has invested in an Edale 10-colour 350mm FL3 flexographic press.

The company acquired the FL3 to produce security labels so was looking for a solution that would deliver sustained quality and ensure high reliability.

Edale's sales and marketing director Darren Pickford, commented, 'This new press order is a testament to Edale's continued commitment to the Indian market and is a valued addition to our growing machine install base within the region. We are proud that a company of

the size and stature of Uflex values the support and quality of our equipment, we are excited to continue working with them.'

To guarantee reliability and repeatability, Uflex has also selected to motorise the x and y register as well as all the pressure settings, which

will allow the future upgrade to Edale's AiiR technology. AiiR (autonomous inking, impression and print registration) uses precision camera technology to improve registration accuracy, while automated print pressure control reduces wastage and set-up times.



Reminder for Annual Subscriptions

Members of the DPA, who have not paid their subscription dues for the year 2018-19 are requested to do so urgently. Members who's dues are pending for the year 2017-18 are reminded that non-payment of dues for two consecutive years will result in termination of membership of the Association.

In case members want to avail of Life Membership they can do so by a one time payment of an amount of ten years subscription and avoid any increase in subscription at a later date.

Pamex 2020 targets 400+ exhibitors from 25 countries

The next edition of Pamex comes up from 6-9 January 2020 at the Bombay Exhibition Centre, Mumbai.

After the success of Pamex 2017 which witnessed more than 350 companies, recorded numerous business deals and also an unprecedented 25223 unique visitors, is expected to bring 400+ exhibitors from more than 25 countries, and host the launch of various innovative products and also feature a large gamut of live running machines.

Concurrent events as panel discussions and

conferences have also been planned.

Presently, more than a hundred companies have already signed by for the next edition. Companies like Acme Machinery (India) (P)

Ltd., Advanced Graphic Systems, Ample Graphics (P) Ltd., APL Machinery (P) Ltd., Autoprint Machinery Manufacturers (P) Ltd., Canon India, Condot Systems (P) Ltd., Electromec Machinery

Manufacturers (P) Ltd., Five Star Printing Machinery, Komori, Konica Minolta Business Solutions India (P) Ltd., Line O Matic Graphic Industries, Memory Repro Systems (P) Ltd. and Xerox India will present their latest innovations at the show.

PAMEX is organised by All India Federation of Master Printers (AIFMP), in association with Print-Packaging.com (P) Ltd. The Show features generation next technologies from worldwide solution providers across various categories like pre-press, in-press and post press segments.



DPA's new website

Delhi Printers Association launched its revamped website recently. Please explore the updated website. We would be grateful for any feedback.

Explore at: www.delhiprintersassociation.org





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Advanced Graphic Systems ties up with China's SHCC to cater for the corrugation industry

Advanced Graphic Systems (AGS) has entered into an exclusive tie-up with Shanghai-based ChaoChang Techpack Machinery Co. Ltd (SHCC), marking its entry into corrugation industry.

Under this partnership, AGS will offer a fully computerised flexo printer, slotter & die cutter that can be customised as per the requirements. The machine is equipped with high speed precise lead edge feeder, auto printing solutions, slotting systems with computerised setting of box dimensions and cutting solutions.

Vishnu R Kamat, Vice President, Sales, Advanced Graphic Systems said "We

foresee a huge opportunity in the corrugation industry due to the increasing e-commerce pie. By partnering with SHCC, we will strengthen our foothold in the industry and provide high quality and precision machines which ensure reliability and longer life span."

Shiny Yu, International Sales Director, SHCC, added, "India is an exciting

market with huge potential for future growth. The rising demand for consumer appliances and products has resulted in higher requirement for packaging materials. This in turn augments the demand for our products. Our partnership with AGS will help us penetrate deeper into the Indian markets by leveraging their strong India footprint."



BALDWIN Vision Systems Launches Autotron 3600

BALDWIN Vision Systems, announced the launch of Autotron™ 3600 at PackPlus 2018 in New Delhi,

Making its industry debut in India, the Autotron 3600 is set to address the demands of BALDWIN Vision Systems' current and prospective customers in one of the largest and fastest-growing packaging markets in the world.



Hemant Desai, General Manager, BALDWIN Vision Systems India, explains "Many customers in India have installed our Autotron 2600 with ClearLogic. However, we recognized the need to offer another product tier, and to add a number of developments that would future-proof our customers' investment. These include higher sensitivity with the new fiber optic color sensor, enabling users to read any type of mark or color variation with increased accuracy, and automated light intensity to better manage inspection of challenging substrates, such as metallics. The new scanning technology also enhances performance and

enables the operator to react faster to register errors or any changes on the press. These latest developments combined with simplified installation ensure the Autotron 3600 will help our customers deliver even higher quality packaging, and maintain their competitive edge."

As a new business unit formed by BALDWIN Technology Company Inc., BALDWIN Vision Systems strategically combines the businesses and technology of QuadTech, PC Industries, and Web Printing Controls to form the industry's most comprehensive portfolio available for print process automation, inspection, and related services.



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Registration opens for Labelexpo India 2018 at India Expo Mart

Registration for the 6th edition of Labelexpo India, the largest label and package printing event in South Asia, is now open.

The show being held at India Expo Centre & Mart in Greater Noida (Delhi NCR), from 22-25 November is to focus at printers, designers, brand owners and industry suppliers. With 250 exhibitors taking part in 2018 – a 25 per cent increase on 2016 – and many press developments being unveiled from leading manufacturers, plus smart technology, finishing units and materials, this year's show also offers an unparalleled networking opportunity for visitors.

Jade Grace, Labelexpo India event director, said: "Since the success of our biggest Labelexpo India in 2016, we have seen the industry come on in leaps and bounds in the region. Printing is the biggest growth market overall, as the appetite for labels and package printing continues undiminished and



innovations in technology develop apace. The scope is huge, and we're seeking to build on that in our 2018 show, as we return to India Expo Centre & Mart in Greater Noida.

"By seeing the latest technology innovations and solutions first-hand, visitors will gain an insight into how the future will look, which will help them transform their businesses and remain competitive. There really is no substitute for having the whole sector under one roof

and buyers and sellers connecting face to face."

Kuldip Goel, president of LMAI, said: "Over the last few years we have seen a major trend with the move from offset printing to label printing and converting. This transformation has been the result of a growing label market in South Asia, and Labelexpo India has played a big role by showcasing the latest technologies from the leading manufacturers around the world."

The prestigious LMAI Avery

Dennison Label Awards presentation will be held on 22 November, which celebrate industry excellence.

Part of the hugely successful Labelexpo Global Series since 2007, Labelexpo India is again strongly supported and endorsed by the trade bodies including the Label Manufacturers Association of India (LMAI), Delhi Printers Association and the All India Federation of Master Printers.

Punjab Kesri Group continues its support for affected families in J&K

Due to terrorist and Pak military activities at the border in Jammu & Kashmir, many families from around the area have been compelled to migrate to safer places in and around the Jammu Distt.

Punjab Kesri Group in its philanthropic activities has been sending trucks carrying articles of daily use for the migrants since 16th October 1999.

Sh. Vijay Kumar Chopra, CMD & Editor-in-Chief Punjab Kesri Group alongwith others flagged off the 476th truck carrying relief material to the migrants of border village Bera, Teh: R.S. Pura, Distt Jammu in the J&K, organised by the Darbar Bawa Lal Dayal ji, Dhianpur (Batala) with the blessings of 1008 Mahant Shri Ram Sunder Das ji.



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9-colour Gallus ECS 340 at Sonic Labels

Mumbai based Sonic Labels has invested a Gallus ECS 340 9-colour flexo press with Cold Foil/ Lamination and Chiller for printing self-adhesive, shrink sleeve, in-mould labels and unsupported films.

Aditya Ohja of Sonic Labels says "The Gallus ECS 340 supports our near-term objective of supplying high-quality labels at affordable rates with turnaround-times as short as 48 hours."

According to Kapil Vaidya, Partner Sonic Labels, "The industrial grade construction of ECS 340 with automations like job data recall, electronic presetting function along with short web paths and light weight sleeve systems aid faster job set up. Features like dynamic print pressure, zero



gap print, enclosed ink tray systems, chilled impression cylinder ensure very high quality print with minimum waste."

Pravin Mahajan, (AGM - Gallus) from Heidelberg India comments "Gallus ECS340 continues to be the best-seller in its class of equipment. Configuration

flexibility is a compelling advantage for this flexo press that can be freely extended by adding two modules at a time. The modular design also helps accommodate embellishing techniques such as flexographic and screen printing, cold foil and rotary die-cutting."

IPAMA begins online visitor registration for Printpack India

The Indian Printing Packaging & Allied Machinery Manufacturers' Association (IPAMA) is preparing for the organisation of the 14th edition of PRINTPACK INDIA exhibition, which is scheduled to be held at India Expo Centre, Greater Noida from February 01 - 06, 2019.

It is a premier international exhibition on Graphic Arts Industry in which exhibitors from different countries participate with their latest models of machinery and other related products.

So far 363 Indian and overseas exhibitors have already confirmed their space booking. The exhibition will

cover a gross area of more than 50,000 square meters.

To make the visitor's visit easier and their hassle free entry IPAMA has launched the "Online Visitor Registration Portal" at a meeting of Office bearers, Governing Council Members, special invitees and representatives of various periodicals, magazines, newspapers etc.

Discussions were also held with different participants relating to the registration

process and the benefits which the business visitors will have during the exhibition period.

Registration can be done on the website <https://printpackipama.com/>.

Key features of online registration: No entry fee for online registered visitor; E-badge valid for entry, subject to photo ID card in original; No need to go to registration desk for printout; One minute process to get the badge and 40 gifts per day on the basis of Lucky draws for online registered visitor who will attend the event.



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Thermochromic Ink Printing

A colour changing technology

In life, the only thing that stays the same is change. The only exception to that rule, of course, is the color of paint on your car. You might really hate that lime green, but there is no way – no way – you're going through the expensive and time-consuming chore of painting it all over again. You wish that the colors of the things in your life were as dynamic as life itself.

Well, sometimes our possessions and paints really can change color, thanks in part to **thermochromic ink** technology. Thermochromic inks take advantage of **thermochromism**, which refers to materials that change their hues in response to temperature fluctuations. Still hate that lime green? Pony up for the right paint and on a warm day, it could morph from a Kermit the Frog hue into a more tolerable sunshine yellow.

Thermochromic inks first hit the mainstream in the 1970s, appearing in one of that era's lasting icons — the mood ring, which supposedly used the wearer's body heat as a sign of his or her emotional state.

More recently, a microwaveable maple syrup bottle featured a thermochromic label that indicated when its buttery, delicious goodness was warm enough for your waffles. And some beer cans sport graphics that appear when their hoppy contents are cool enough to provide optimum refreshment.

Since mood rings, thermochromic inks have evolved at a steady pace. They're still used in all sorts of silly novelty items, but they have many useful and creative applications, too: thermometers, clothing, paint, drink containers, toys, battery indicators, plastic products of all kinds and much more.

There are numerous companies integrating these dynamic, eye-catching inks into their products. Doing so can help them grab consumers' attention and differentiate a brand from those that use old-fashioned inks with just one static hue. Paired with a clever bit of creativity, such products provide real visual wow.

The Heat is On, The Color is Off

Thermochromic inks change color with exposure to heat. They can go from colorful to colorless, colorless to colorful, or change from one color to

another. Some cause a permanent, irreversible color change, and some give a temporary reversible color change. Each thermochromic colorant has a fixed temperature range over which its color change takes place.

Thermochromic inks conjure their magic in different ways. Currently, there are two major categories of these inks: thermochromatic liquid crystals (TLCs) and leuco dyes.

Liquid crystals are exactly what their name indicates — a substance that has many properties of a liquid crossed with structural elements inherent to crystals. Peer through a microscope at a liquid crystal and you'll see a fluid that exhibits evident textures.

Liquid crystals are dynamic. Their properties change depending on environmental conditions; TLCs exhibit different colors in response to temperature changes. At lower tempera-

tures, these liquid crystals are mostly in a solid, crystalline form. In this low temperature state, TLCs may not reflect much light at all, thus, appearing black.

Apply warmth and increase it bit by bit, though, and you'll see the TLCs shift from black to just about every color of the rainbow. This happens because as temperature rises, spacing between the crystals changes, and as a result, they reflect light differently.

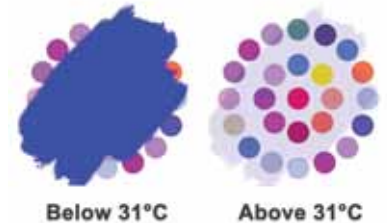
You can't just plop TLCs onto a product to make it change colors. The liquid crystals must first be microencapsulated into billions of tiny capsules that are just a few microns in size. This encapsulation process offers some protection for the TLCs and maintains their thermochromic properties.

Then, these capsules are blended with other materials and used in products, such as room thermometers. Hang the thermometer in a bedroom and you'll see a



Thermochromic Ink

COLOUR CHANGING



Temperature Sensitive Ink

rapid change in color that indicates an accurate temperature.

Temperature accuracy is a strong suit for TLCs. Their color consistency means they can indicate heat levels to within a few degrees. However, TLCs are a touchy technology. Their performance can suffer with repeated exposure to UV light, water and chemicals. What's more, they require specialized equipment for proper integration into various products, and that equipment (as well as the TLCs themselves) often adds significant expense to a manufacturer's production costs.

Leuco dyes and inks, though, are a different story.

Loco for Leuco (Dyes)

Liquid crystal-based TLCs are a temperamental bunch and rather difficult to incorporate into labels, clothes or other goods. Leuco dyeinks, though, feature more durable chemistry that lets product designers employ these inks for all sorts of fun applications.

Applications for thermochromic inks have expanded. Thermochromic

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Inks are used for security, novelty, and temperature-change indicators in packaging applications.

Thermochromic inks are used in packaging and labels for refrigerated items such as beverages. They are also used in specialized packaging for CDs and DVDs.

Most of the new applications are novelty effects in packaging: areas of heat-sensitive, color-changing ink on ice cream cartons, beer labels, cups/mugs, lottery tickets, and CD/DVD packaging. On the food containers, there is a minor functional purpose in letting the user know if the food is roughly in the optimal temperature range.

One of the most famous applications of leuco dyes is on cans of Coors Light beer. These cans feature a graphic of a mountain landscape next to the company's logo. At room temperature, the mountains appear white. Cool the can to drinking temperature (about 45 degrees Fahrenheit or 7 Celsius), and those same mountains

turn a vivid, bright blue. As the beer warms in your hand, the graphic again shifts to its original white. This color change can happen over and over again.

As with TLCs, leuco dyes are also microencapsulated into tiny droplets that are only about 3 to 5 microns in size, which prevents them from reacting with or being damaged by other chemicals.

Usually, leuco dyes are colored when they're at a cool temperature. Then, as heat rises, they become translucent, which lets them reveal any colors, patterns or words that may be printed on an underlying layer of ink. In other products, leuco dyes can be blended with another color so that as temperatures change, a two-tone effect occurs. Mix blue with yellow, for example, and you have an ink that looks green at lower temperatures and yellow when heat rises.

It sounds a bit magical, but there's some basic science behind the way the inks work. The teeny capsules contain a colorant, an organic acid and a solvent. At lower temperatures the solvent remains in a solid state, keeping the colorant and acid in close proximity to each other — and as a result, they reflect light and create color. As the solvent warms, the colorant and the acid separate and there's no visible color, which in turn exposes underlying inks.

Take your maple syrup bottle as an example. At room temperature, the bottle shows a picture of a tiny

black microwave; when warmed, the black area fades, temporarily revealing the word "hot."

When it comes to temperature accuracy, leuco dyes are more ham-handed than TLCs, so you can't depend on them for applications where you really need a precise temperature reading. But leuco dyes can be integrated into all sorts of fascinating and amusing products.

Inky Intricacies

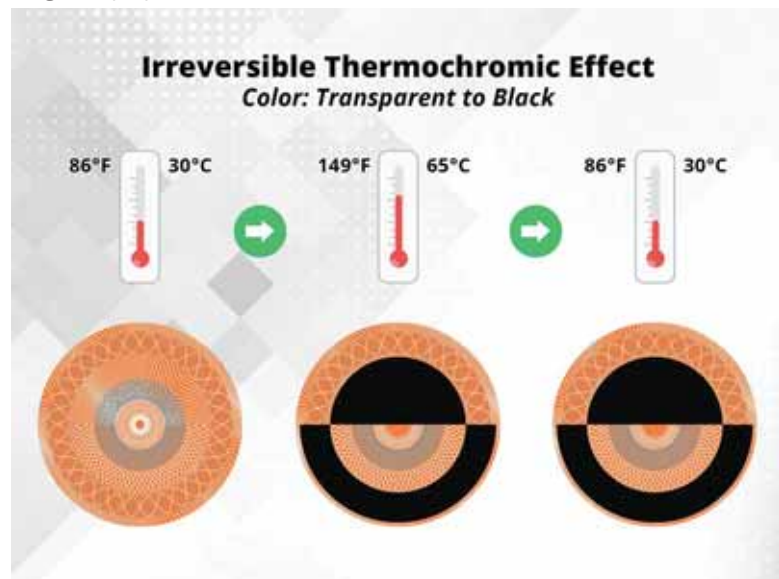
Makers of color-morphing products love thermochromic inks, but they have to choose these inks carefully to ensure that they'll work well in their current manufacturing processes. Usually, companies will acquire samples from ink suppliers and then follow a process of trial and error until the results are stable and visually mesmerizing.

Both types of thermochromic inks have pros and cons. Chemists must weigh the properties of each

before choosing an ink that's best for their application.

The temperature range of thermochromic liquid crystals is around -22 to 194 degrees Fahrenheit (-30 to 90 Celsius). For the most vivid colors, they require a black background, and in part because of this, the best use of TLCs is in plastic products such as thermometers. Because they're water-based, these inks are harder to work with than leuco dyes.

Unlike TLCs, leuco dyes can be incorporated in a much broader range of products, so long as engineers keep temperature specifications in mind. With the right tweaking, the dyes are capable of shifting from one color to another in temperature ranges of 5 to 140 degrees Fahrenheit (-15 to 60 Celsius). Again, the point at which the transition happens isn't terribly accurate with leuco dyes, but it generally occurs within 6 to 18 degrees Fahrenheit (-14 to -7 degrees Celsius) of the intended temperature.





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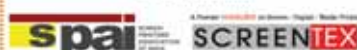
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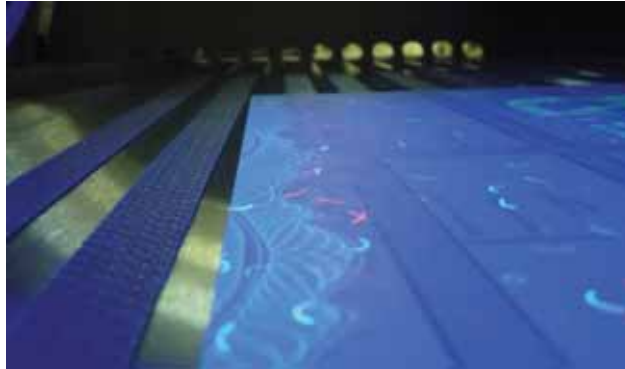
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Leuco dyes are far sturdier than TLCs. Because of that, they're used in many kinds of inks, including water-, solvent-, epoxy-based inks and more. Their adaptability means they're integrated into all sorts of printing processes, such as screen, offset, gravure and others. You'll also find them in plastics, on metals and blended into a variety of paints.

For flexo and gravure applications an anilox or cylinder of 175 linescreen (maximum) or lower should be used with very good airflow out of dryer ovens. This is because color strength of thermochromic pigments/dyes is low, and because leuco dye particle sizes can run from around 2-10 microns, with liquid crystal particles averaging 10-15 microns. Therefore, application of a higher ink film thickness is required.

The thicker you can put down the ink, the better response you get. Thinner ink film does not give the dramatic effects typically desired. And screen applications tend to provide the best results.



Leuco dyes appear in a plethora of paper products as well, such as quirky, direct-mail advertisements and promotional materials. Security-minded products rely on leuco dyes, too, including prescription drug pads and check security features. Simply touch a temperature icon embedded in the document and its appearance will change, confirming its authenticity.

Thermochromic inks aren't currently used for hardcore security purposes. For example, they aren't great for preventing counterfeiting because the inks are available for purchase on the open market, meaning crooks could easily make their own temperature-sensitive cash.

Thermochromic inks make smart packages smarter

Although it is difficult to define exactly what smart packaging is, one significant component of any smart package is its ability to communicate with the person interacting with it. In food packaging, some packages can communicate freshness, while others can communicate a product's history or expiration. In terms of the pharmaceutical market, packages integrating RFID tags to verify authenticity is another example.

Enchanting Inks

Thermochromic inks are more expensive than regular inks, but they still find their

way into innovative products, from clothes and cars to papers, paints and bathroom fixtures. Beer and energy drink companies are known for incorporating flashy, temperature-sensitive graphics into their products. Leuco dyes don't interfere with recycling, so they're environmentally sound, too.

Various manufacturers integrate leuco dyes into shirts, skirts and other clothing. Press your hand to these materials and that imprint will linger, offering a weirdly eye-catching appeal.

Added to wallpaper or wall paint, these inks hold all sorts of interior decorating potential. At the right temperature, for instance, those vines on your wallpaper would actually bloom into gorgeous pink flowers.

The artistic and aesthetic appeal of these dynamic inks is endless. As chemists continue improving these inks, you can expect to see more and more products that incorporate them. And then you'll be able to upgrade many of the products you own to reflect just about any color of the rainbow.

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Mechanism was applicable on goods or services taken from transporters, advocates and all the unregistered persons. It may be noted w.e.f.

October 13, 2017, such reverse charge in relation to unregistered entity was withdrawn. However, reverse charge in relation to transporters and advocates (and some other services) is still continuing. Thus it is pertinent to note the following:-

- a. Reverse Charge in relation to all the unregistered entity were paid upto October 13, 2017.
- b. Reverse Charge in relation to transport-

ers and advocates etc.'are paid till date continuously.

- c. If such Reverse Charges are not paid then they should be given in current periods GSTR-3B and recorded in the books of accounts accordingly.*

9. Checking Input Tax Credit in relation to denied supplies : Presume items as per 'attached list' are denied for the purpose of taking credit. Then such credits should not be taken.

If any of such credits have been taken, then they should be removed from the books of accounts and GSTR-3B.

10. Checking for any pending ITC : Any ITC which was related to the year 2017-18 and which was related to the year 201-18 and which could not be taken due to non-receipt of invoices or non-receipt of material, then such credit should be taken before the month of September 2018. After the prescribed period such credit could not be taken by any means.

11. Checking for any pending liabilities : If any liability is pending which could not be declared in the return then the same is also to be deposited in time before finalisation of books of accounts.

12. Pending Credit/Debit notes : Any pending credit/debit notes should also be finalised before finalisation of books of accounts and should be declared in the return before the month of September 2018.

These are some of the issues which are to be taken care of before finalisation of accounts.

*Compiled by Arvind B. Mardikar
Hon. Gen. Secretary and
Hon. Editor of Printing Times,
AIFMP
Source: Gol notifications and
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The Hitavada** and inputs from
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How To Identify A Bad Print Job

Let's start off this topic by defining the word "bad" as it relates to print jobs. There are two types of bad print jobs:

- 1) Ones with minor imperfections that fall within tolerance
- 2) Ones so flawed that they must be scrapped and redone

Minor imperfections can occur within any job. For example, foil stampings that are not as crisp, coating not as glossy, or the color not as bright as expected. Often, minor problems are a matter of expectation, not tolerance. The important thing to determine is whether these flaws fall within an agreed upon range of tolerance.

Tolerance refers to the degree of variation between a proof and its final product. Often tolerance is expressed as a percentage. For example, there might be a .05% color tolerance for run of brochures, meaning the color may not vary from the proofs by more than .05%. Tolerances are typically measured digitally. Computers - or to be precise, densitometers - are much better at detect-

ing variability than the human eye.

In fact, most people cannot tell when a job exceeds tolerance. However, printers, print buyers, and brand managers can, and they understand how important it is to ensure color accuracy and other factors are as close to perfect as possible. Companies' branding must be consistent and recognizable.

identify a flaw that falls within tolerance, even if you pointed it out to them.

What makes for a seriously bad print job? Common mistakes include:

- * Color not matching proofs or signed press check sheets
- * content or pages
- * Missed deadlines

- * Curling paper
- * Ink not drying and smearing... the list can go on.

These mistakes typically mean the job has to be redone. Fortunately, all of these mistakes are the printer's responsibility. They should cover the direct cost of rerunning the job. Unfortunately, a bad print job can still incur major indirect costs for you, including delays, added costs, unsold inventory, stress, and frustration.

What's the best way to avoid a bad print job? The key is to choose a printing company with an established reputation for quality. Often, older printers have survived as long as they have because of their commitment to quality. Once a printer sacrifices quality for

margin, it begins to lose its reputation and then its business. Seasoned companies know printing's failure points, and they have systems in place to prevent mistakes from occurring. Additionally, the experience and talent of their employees minimize the possibility of something bad happening to a job.



There are tolerances for every aspect of printing, including folding, paper thickness, color, and others. Minor issues that fall within tolerance often cannot be improved. Luckily, most consumers will not be able to

- * Budget overruns
- * Materials being delivered to the wrong address
- * Gutter jumps not matching
- * Cracking spine
- * Ghosting
- * Offsetting
- * Staples not holding

Seminar on Pressroom Standardisation

A one-day seminar-cum-symposium was organized by PressMan Solutions, at New Delhi with a view to highlight the success stories and vital decisions which leaders in the segment take.

Inaugurated by Sunil Jain (Past President - DPA) and Naveen Gupta (Honorary



General Secretary – IPAMA), Vikram Bindal (President - Himachal Pradesh Printers Association) and eminent speakers, the seminar was attended by leading names of the printing industry.

Pressman is industry's well known and highly reputed for its professional trainings and work towards Print Standardization with service support across South Asian regions. This was its first event for North India. Their fixed event

format of only 40 audience + 1 day + 4 topic + 4 speakers is popular across the country. Pressman is certified by UGRA / G7 / BrandQ / ISO-9001:2015 / GMI certification specialist and trainers.

Every printer's dream is of making world class printing

products. In spite of investing in good prepress and press technologies, they struggle to deliver the best print as well as consistent prints. The best way to initiate this process is to train and educate the people who work in pressroom. Unfortunately the people who operate the high-tech machines have no formal education or training. Through such programs Pressman tries to reach out to every printer and help

them transform their pressroom work procedures.

First session was handled by K. Panthala Selvan, Managing Director of Pressman Solutions Academy, Idealliance South Asia. Authorised consultant and trainer for G7 / BrandQ / UGRA he is a well known trainer in South Asian region. He presented an eye opening session about "INTRODUCTION TO PRESSROOM STANDARDISATION". This session was presented as a case study which was done at a printing factory in Bangladesh. He went through the different areas of the printing factory which goes through the standardization process. The session was inspiring and made the printers to visualise how they wanted their pressroom to change. It covered how men-machine-material-method-measurement process can change and transform a productive-cost efficient – high quality printing factory.

The second session was covered by Madhan Kumar from Provin Technos, product manager with rich experience in Ryobi and Mitsubishi presses. His specialty is training opera-

tors on how to run the press. He shared his press room knowledge and covered in detail about roller setting, zero settings, make ready process and running the press with less water. He also highlighted about how to run the machine more efficiently.

Milind Kale, Deputy General Manager Technova imaging – Chemical business. covered the topic of raw water quality, fount mixing ratio, need of IPA, IPA substitute and washing solutions. His session was more about the basic functionality of the chemistry, how to choose them, how to handle them etc., He also handled many questions related to IPA substitute, conductivity requirements etc.,

Ranvikram Singh, chemical engineer from the Toyo factory spoke in detail about ink chemistry, colour and need for standardization. He also addressed many questions related to ink problems and offered many tricks to handle them.

All sessions were followed by questions and answers.

The program was supported by Delhi Printers' Association and IPAMA.

3 new models added to the Mark Andy Performance Series Line

Mark Andy announced the release of new press models: P9E, P7E and P5E to the Performance Series product line.

The new Performance Series P9E press is specifically designed for high-quality flexible packaging production. Available in web widths up to 26 inch (660 mm), the flexo press is engineered as the ideal solution to print film, shrink sleeves, flexible packaging and foil lidding.

Performance Series P9E is built standard with new servo-controlled impression adjustment, independent servo-driven anilox rolls and servo side adjust at print speeds up to 1,000 fpm. Ergonomic efficiency is at the forefront of the wider 22 and 26 inch web widths, which include plate cylinder loading support as well as an anilox and chamber drawer. Configured with Mark Andy AI, the Perform-

ance Series P9E offers advanced automation with automated registration and impression, job save, 8 servo motors per station and a centralized control system. The enhancements reduce manual adjustments and associated downtime while meeting Industry 4.0 demands. The Mark Andy AI package is intelligent and customized to unique business needs, curbing potential production bottlenecks.

“Mark Andy has over 800 Performance Series installed

worldwide. We continue to develop flexible printing solutions that allow our customers to evolve as their job mix changes. The Performance Series P9E is an extension of our commitment and solves the pain points narrow web converters are facing plus the growing demand for shrink,” states Jeff Cowan, Director-Business Development, Mark Andy.

The Performance Series press line also welcomes the P7E and P5E models. Engineered with precision,

the Performance Series P7E allows converters to expand into new markets, targeting entry level film and extended content applications. The P5E is designed to increase converter profitability for the simplest to most complex label applications.

The 3 new presses deliver an updated ProLED system with air cooling and modular recirculation dryers, both offering sustainability benefits. The machines are equipped with Mark Andy Thread-It technology, which simplifies press webbing for operators and is three times faster than traditional webbing methods. Additional press options include Digital Plus Screen, a digital inkjet replacement for rotary screen printing as well as QCDC-SR (Quick Change Die Cut Semi Rotary) adding advanced capability to flexo equipment that is also available on Mark Andy digital hybrid technology.



Screen upgrades its Platerite 8600NII CTP series

Screen has launched a new series of the trusted Platerite 8600NII series of 8-page thermal CtP systems. The Screen '8600' series of B1 platesetters has become an industry legend worldwide since its introduction in 2001.

The new Platerite 8600NII series are eight-page thermal CTP systems equipped with high-output fibre laser diode exposure heads, enabling outstanding productivity of up to 32 plates per hour as well as superior cost performance

and energy savings.

The midrange Platerite 8600NII models will complement the flagship Platerite 8900HDN models, which can image up to 70 plates per hour. All Platerite 8600NII models feature the latest fibre laser diode exposure heads. These heads work with SCREEN's proprietary clamp technologies and auto-balance mechanism to enable stable, high-speed exposure with top quality. The lineup includes the Z, S and E models, allowing printing

companies to choose the right model for their production requirements.

The Z model is equipped with 96 channel exposure heads, supporting output of up to 32 plates per hour. The S and E models have 64 and 32 channel heads

respectively, for outputs of 24 and 14 plates per hour. In addition, all models feature major functionality improvements such as a power-saving mode that reduces energy consumption during idling, producing energy savings of around 60% during operation and 73% during standby.



Kodak to sell its Flexographic Packaging Division

Kodak has announced that it's begun a process to sell its Flexographic Packaging Division utilizing UBS Investment Bank as the financial adviser for the transaction. Kodak's Flexographic Packaging Division (FPD) produces and markets the Flexcel NX system of flexographic imaging equipment, printing plates, consumables and related services.

For the past 12 months, FPD reported revenues of \$150 million and operational EBITDA of \$33 million. During this period, FPD demonstrated strong growth, achieving a 9% increase in revenue and 18% operational EBITDA growth, said the company. FPD currently employs about 300 people. During the sale process, Kodak said it will continue to make significant investments in FPD by expanding manufacturing capacity, developing advanced technology, and adding employees to meet customer needs. Kodak's Flexcel NX platform "uses proprietary imaging technology to provide consistent, high-quality print with maximum on-press efficiency" across the full gamut of flexography applications.

"This is a great opportunity to unlock value for shareholders given the strong interest we've received in the Flexographic Packaging Division," said Kodak CEO Jeffrey J. Clarke. "FPD has performed exceptionally well over the past 5 years and has become a significant player in the industry. This business is an excellent example of Kodak incubating and bringing disruptive innovation to the marketplace. Kodak has been evaluating monetization opportunities for the last several years in order to deleverage the company, and we believe this is the right time to monetize this valuable asset. Following this transaction, Kodak's improved capital structure will allow us to increase our focus on demonstrated growth engines, while continuing to invest in and provide solutions across the commercial printing, film and advanced materials industries," he added.



Renz launches Argos HD coater

Renz and Argos Solutions have announced the launch of the new F400 HD Cold UV Coater a high-definition UV coating machine.

Featuring a closed-lamp LED curing system, substrate temperatures never exceed 25°C, which means as little as 2g of coating is required per square metre. Renz said this is a significant cost saving compared with the coater's competitors, which Renz said require up to 10g/sqm for an effective coat.

Argos' F400 HD can handle sheets up to 400mm wide, though a 540mm version is available to cater for the B2 market. According to Simpson, the primary market that will be targeted is the large web-to-print companies that produce greetings cards and other on-demand photographic jobs, while the packaging industry would also be a key area of focus.

Currently released for the UK market, the machine will get its UK show debut at The Print Show.



Sharp adds entry level MFP

Sharp has extended its A3 black and white line-up with the MX-M2630, a 26ppm entry level MFP.

The printer offers external finishing capabilities with multi-layered security features and a wide range of features as standard including a customisable user interface, and a pull printing solution that stores print jobs for authentication. This means that documents are only printed when the user is at the device, preventing sensitive documents being left unattended in the printer tray.

Optional features include cloud connectivity, Office Direct Print and OCR function for scanning, to enable the simple digitisation of documents into editable, searchable files.



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New Watkiss bookletmaker for digital printers

Watkiss Automation has announced the launch of a new bookletmaker in the PowerSquare range. The PSQ160-WH is a hand feed bookletmaker for short run work, designed for flexible applications in a wide range of media sizes including long sheets and larger formats that existing options on the market.

As more digital presses from companies such as Canon, Konica Minolta, Ricoh and Xerox can print duplex on long sheets, there is a growing demand for A4 landscape and other large format booklets.

Key features on the new machine include a tile-based user

interface with touch and swipe functionality, pre-set standard sizes and the ability to store custom job sizes.

The PSQ160-WH also produces SquareBack books that lie flat, stack and allow printing on the spine, while users can opt to fit the device with the optional P2T Side Trimmer that trims the top and bottom of the book



for full-bleed colour applications.

The wide media range process input sizes from 200x200 mm to 370x620 mm; with stock weights from 60 to 400 gsm. Finished booklet sizes can range from 120x78 mm to 370x305 mm, and so encompass all popular booklet applications such as A4 landscape, 12x12 inches, DL size (99 x 210mm) and CD booklets,

which can all be completed in a single pass.

It is ideal for short run manuals, magazines, programmes, academic journals, financial reports and education materials.

Curious Metallics from Arjowiggins

Following the recent launch of the new Keaycolour spectrum, the extension of the Curious Metallics palette is latest step in Arjowiggins Creative Papers' mission for 2018, to become the papermaking source of international standards for creative papers.



According to Arjowiggins, when creatives select paper, their first criterion is frequently colour. By broadening the spectrum of their product ranges, they intend to inspire creativity and make the unique physical qualities of their papers accessible on a much wider variety of projects.

Curious Metallics is a range of natural wove papers and boards designed to bring a sophisticated metallic shimmer to premium print and packaging. With the addition of 15 subtle new colours, there is now a palette of 30 colours with which to work, from cool Aloe and Aquamarine to Night, a black as dark and deep as obsidian.

Neenah introduces 100% pure cotton papers

Available in four shades of white and three subtle colours, it's the perfect palette for modern design applications as well as personal and business correspondence. The three on-trend colours: Mint, the 'it' colour, Blush, a fresh take on millennial pink, and an elegant and timeless Grey.

Neenah Cotton Papers are offered in a Smooth, Woven and Letterpress finish. The luxuriously soft Letterpress finish is unsized and uncalendered, resulting in an extra toothy, handmade feel.

Ellen Bliske, Senior Marketing Manager, Neenah says "Neenah Cotton Papers truly represent everything

Neenah brings to the art and science of papermaking: impeccable quality and superior craftsmanship."

A Letterpress Digital finish is offered in 90 and 110 Cover; engineered to perform on the latest digital printing presses. With a full range of available weights,

NEENAH Cotton Papers are perfect for all types of applications including birth announcements, party invitations, business cards, personal stationery, business correspondence, letterhead and holiday cards.



Event Watch



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Email: info@esma.com

Website: www.theijc.com



Adobe Max

The Creativity conference

15-17 October

Los Angeles, CA, USA

Contact:

Adobe Systems Incorporated

Toll Free: (866) 855-3804

Outside the US: (650) 416-8162

Email: adobeindia@adobemarketing.co.in

Website: <https://max.adobe.com/signupandsave/?promoid=J469WXH5&mv=other>



SGIA Expo 2017

Specialty printing and imaging technology

18-20 October

Las Vegas, USA

Contact:

Specialty Graphic Imaging Association

10015 Main Street,

Fairfax, VA USA.

Tel: +888.385.3588

Fax: +703 273 0456

Email: jean@sgia.org

Website: www.sgia.org/expo/2018



Viscom Italia 2018

International Trade Fair and Conference on Visual Communication

18-20 October

Fiera Milan Rho, Italy

Contact:

Reed Exhibitions Italia srl

Via Marostica, 1, Milan - 20146

Tel: +39 02 435170.1

Fax: +39 02 43517065

Email: viscomitalia@reedexpo.it

Website: www.viscomitalia.it



Pacprocess/Indiapack

Exhibition on processing and packaging

24-26 October

Mumbai, India

Contact:

Messe Düsseldorf India Pvt. Ltd.

302-302A, 3rd Floor

Salcon Aurum

Plot No. 4, Jasola District Centre

Near Apollo Hospital

New Delhi - 110025, India

Tel.: +91 11 4855-0000

Fax: +91 11 4855-0099

Website: www.pacprocess-india.com



All In Print China 2018

China printing exhibition, all about printing technology and equipment

24-28 October

Shanghai, PR China

Contact:

Messe Düsseldorf (Shanghai) Co., Ltd.

Tel: +86-21-6169 8300, 8357

Fax: +86-21-6169 8301

Email: allinprint@mds.cn

Website: www.allinprint.com/En



3D Fab+Print 2018

Conference on industrial 3D printing & manufacturing

24-28 October

Shanghai, PR China

Contact:

German Centre for Industry and Trade Shanghai

Units 308, Tower 1, 88 Keyuan Road,

Zhangjiang Hi-Tech Park, Pudong,

Shanghai 201203

Tel: +86 021 6169 8300

Fax: +86 021 6169 8301

Website: www.3dfabprint.com/



PPP Africa 2018

International trade exhibition on Plastics, Printing and Packaging

25-27 October

Dar-es-Salaam, Tanzania

Contact:

Expogroup Int'l Marketing HQ:

Level 25, Monarch Office Tower,

P.O. Box - 333840,

One Sheikh Zayed Road, Dubai

Tel: +971-4-3721421

Fax: +971-4-3721422

Email: support@expogroup.net

Website: www.expogr.com/tanzania/pppexpo/



2018 PEERS Conference*

Pulping, Engineering, Environmental, Recycling, Sustainability

28-31 October

Portland, OR, USA

Contact:

TAAPI

15 Technology Parkway South,

Suite 115, Peachtree Corners,

GA 30092, USA

Tel.: +1 770-446-1400

Fax: +1 770-446-6947

Email: memberconnection@tappi.org

Website: www.tappipeers.org/



FTA 2018 Fall Conference

Conference Theme:

'Taking Care of Business'

29-31 October

Cleveland, OH, USA

Contact:

Flexographic Technical Association

3920 Veterans Memorial Hwy

Ste 9 Bohemia,

NY 11716-1074, USA

Tel.: +00 1.631.737.6020

Fax: +00 1.631.737.6813

Email: scox@flexography.org

Website: www.flexography.org



Inside 3D Printing

Strategies for the 3D ecosystem

30-31 October

New York, USA

Contact:

Rising Media, Inc.

211 E. Victoria Street, Suite E

Santa Barbara,

CA 93101, USA

Tel.: 646 397-4992

Fax: +1 (916) 314 9080

Email: events@risingmedia.com

Website: www.inside3dprinting.com/new-york



KazUpack 2018

Kazakhstan International Exhibition

31 October-2 November

Almaty, Kazakhstan

Contact:

ITE Siberia

633102 Novosibirsk,

Stacionnaya Street, Russia, 104

Tel.: +7 383 363 00 63

Fax: +7 383 363 79 01

Email: vp@ite-exhibitions.com

Website: www.kazupack.kz/en/

PAMEX 2020

International Exhibition on Printing and Allied Machinery Industries
Of the Printers - For the Printers - By the Printers

6 - 9 January 2020

Bombay Exhibition Centre,
Goregaon, **Mumbai**



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Vashi Railway Station, Vashi, Navi Mumbai 400 705.
Tel : 91-22-27812093, 27812619, 27812657
Fax : 91-22-27812578

Noida: Advant Navis, Unit No. A1101B, 11th Floor, Plot No. 7,
Sector 142, Expressway, Noida-201301, Uttar Pradesh, India
Tel:- 91-120-4300586-587
Email : info@print-packaging.com

www.Pamex.in

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 COLOUR MANAGEMENT	 PACKAGING DESIGN SUITE	 SOFTWARE SOLUTIONS	 EQUIPMENT SERVICES PORTAL	

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