

## BCF print forum: throwing light on UV LED

Tuesday 2 October, Dalmahoy Hotel and Country Club, Edinburgh

Tuesday 9 October, Moor Hall Hotel, Sutton Coldfield

### Full programme

#### Introductions by our lead sponsors

*Representatives from Flint Group & Paragon Inks*

**FlintGroup** / *Narrow Web*



#### The birth of UV LED

*Gareth Ward, Editor Print Business*

UV LED technology has developed rapidly over the course of the last few years and is predicted to become the dominant curing technology for most if not all UV printing processes within 5 years. Gareth's presentation will provide a brief introduction to the technology and its origins and will outline the reasons why it has been embraced by the print world.

#### The ink makers' challenge

*Nick Ivory, Chair EuPIA PI-FOOD Energy Curing Working Group*

The introduction of UV LED technology to the printing ink world has led to several new challenges for the ink formulator; especially in terms of raw material selection, formulation balancing, ink stability during the process, and the need to compensate for the lack of the heat boost provided by conventional lamps. Nick's presentation will explain how the ink sector are addressing these challenges and where further development is focussed, in addition to mentioning the benefits that this technology brings to the ink manufacturing sector.

#### The lamp makers' challenge

*Thomas Gohl (presenting in Edinburgh)/Jens Langer (presenting in Sutton Coldfield)*

The development of UV LED chip arrays and SLMs (Semi-Conductor Light Matrices), based on doped silicon semi-conductor technology, have brought a whole new technology to the UV printing world, displacing the traditional mercury arc lamps. This presentation will cover both the history of this new technology, as well as the current uses and challenges to equipment design and configuration, for the wide range of printing processes which are using UV LED or could see its introduction in the coming years.

#### The press manufacturers' solutions

- **Sheetfed offset**, *Craig Bretherton, Product and Marketing Manager, KBA*

Whether you are planning to invest in a new sheetfed press with factory fitted UV LED lamps, or wish to convert your existing press, there are several considerations before making that final decision. Craig's presentation looks at the current landscape of sheetfed offset UV LED installations and some of the financial factors to weigh up before taking the UV LED plunge. He also explains some of the technical challenges of including UV LED lamps into a sheetfed press and what the press operator needs to know about the advantages and disadvantages of UV LED printing.

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## The press manufacturers' solutions (continued)

- **Digital** - *Dr Natasha Jeremic, Digital Ink Development Team Leader, Domino*

Natasha will discuss the benefits and challenges of implementation of LED cure in digital printing technology. Through analysis of all different steps and materials included into the printing process, the main factors influencing cure are identified. Variables that significantly affect the success of LED adoption in UV inkjet printing are ink chemistry, type of the printhead used for deposition, substrate properties, printing speed, application requirements and spectral emission of the curing system itself.

- **Narrow web** - *Phil Baldwin, Sales Manager, Mark Andy Group*

UV LED printing has been around for some years already and narrow web label printers were at the forefront of its development. Phil will review those last few years, how the landscape of label printing has changed due to UV LED and the advantages it presents to the press operator. He also explains how the narrow web print sector continues to develop and what challenges still remain. Will UV LED take over completely?

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## Press rollers

*Graham Punchard, BFS/Westland*

When converting to UV LED it is vitally important to ensure your press is fit for purpose, which includes having the correctly specified rollers. Damon Field, Technical Sales Manager will join Graham to explain the different rubber compounds used in press rollers, and what impact switching to UV inks has on them. They will also take us through the dos and don'ts of roller care, and finally give a general idea of the process, lead times and typical costs of recovering rollers to get them ready to accept UV LED inks.

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## The retrofit process – things to consider

*Richard Wilson, Independent Consultant, RW Print Consultants*

The attraction of UV LED has now been confirmed, but what hoops does a printer wishing to retrofit a sheetfed press have to jump through before he can start to reap the rewards? Richard has been closely involved in over 25 retrofit installations around the world, and has worked with ink companies and OEMs on UV LED product developments. He's seen first hand the pitfalls and the triumphs that the process can throw up. Here he explains what to expect if retrofitting an existing asset, some of the challenges to be aware of and where to turn when things don't go as planned.

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## Case study – how early adopters benefited

### **B&B Press – 1st sheetfed printer in UK to install UV LED**

*Dave Stones, Sales & Marketing Director B & B Press*

As the first printer in the UK to install LED UV in 2013 B&B Press took a leap of faith into the dark. What was it about this new technology that so fired them up? And 5 years on, what have they learnt from the experience, how has LED UV affected their business, and what might they have done differently, given their time again? Dave will share their experiences with you from a Sales & Marketing perspective and how they have been able to add real value to their clients.

## Case study – JThompson Colour Printers Glasgow

Kevin Creechan, MD JThompson Colour Printers

In 2016, JThomson Colour Printers also took the leap of faith to install UV LED and two years on their business has evolved as a result of this investment. MD Kevin Creechan will explain the learning curve he and his colleagues went through, the positives and the negatives, which is a fascinating story and one which hopefully will help you to draw some conclusions about your own business and what UV LED could do for you.

## Panel discussion with above speakers

Chaired by BCF's Trevor Fielding

## Round-up - what does the future hold?

Gareth Ward, Editor, Print Business

## With thanks to our sponsors

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**FlintGroup** | Narrow Web



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### Early bird (ends 31 August)

BCF Members and partner associations - £85 + VAT  
Non-members and other - £95 + VAT

### Non-early bird

BCF Members and partner associations - £95 + VAT  
Non-members and other - £115 + VAT

**Special offer for apprentices - £50 when accompanied by a full price delegate.**

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