



BRITISH COATINGS FEDERATION

# BCF print forum: throwing light on UV LED

*Everything the printer needs to know about UV LED curing*

2 October, Dalmahoy Hotel & Country Club Edinburgh, Scotland

9 October, Moor Hall, Sutton Coldfield



*With thanks to our sponsors*

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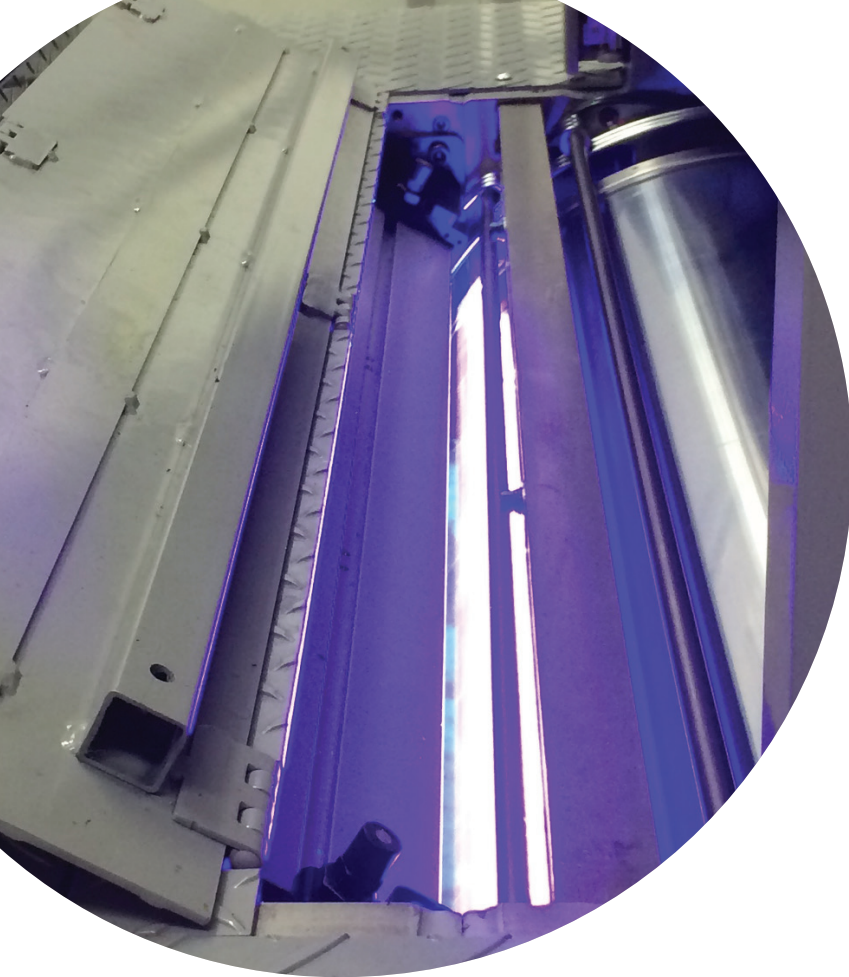


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## Why UV LED?

UV LED curing technology first appeared in the print sector more than 10 years ago, but now it's taking the printing world by storm and the pace of its adoption by all print applications is accelerating. Digital, flexographic and litho printers are all now familiar with UV LED, and every industry event seems to have an increasingly stronger emphasis on it than ever before.

For the uninitiated the subject can be confusing; for the early adopters it's proven to be a new means of saving cost, improving green credentials, improving quality, opening new markets, experimenting with new substrates and much more. And there are good reasons to embrace this game-changing technology - to be able to compete in a world where customers demand faster and more impressive service, not to mention potential legislation issues with traditional UV curing systems.

The BCF, along with an impressive array of its own ink and coatings members plus a specially selected group of equipment manufacturers and other print consumables suppliers, offers a forum to present delegates an insight into the entire UV LED story – compelling and competitive reasons to consider UV LED systems, and the chance to speak, one-to-one, with the industry experts who can lead you through the technology and help you decide if it's right for you.

**Join us on 2 October, Dalmahoy Hotel and Country Club in Edinburgh or 9 October at Moor Hall in Sutton Coldfield.**

**Delegates will come away from this one-day event with a complete understanding of what UV LED is and what it can offer them**

## Pricing

**Early bird**  
(ends 7 September)

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**



## Our speakers

### 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 is 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  
Sales Manager  
Sheetfed, IST Metz



Jens Langer  
Sales Director, Print  
IST Metz

The development of UV LED chip arrays and SLMs (Semi-Conductor Light Matrices), based on doped silicon semiconductor technology, have brought a whole new technology to the UV printing world, displacing the traditional mercury arc lamps.

Thomas's presentation at the Edinburgh event, and Jen's in Sutton Coldfield, 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.

### 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. Mike Craven, 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.

## 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 your 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 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.

### 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?

### 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 reap the rewards? Richard has been 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 both the pitfalls and the triumphs of the process. 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.

### CASE STUDY - HOW EARLY ADOPTERS BENEFITED



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 learned 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 - J THOMPSON COLOUR PRINTERS GLASGOW



Kevin Creechan,  
MD Thompson Colour Printers

In 2016, J Thomson 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.