

Ink Jet 2011 Technology Showcase

IMI
EUROPE

6 TUTORIALS
4 KEYNOTES
10 HOURS OF PRESENTATIONS
6 HOURS OF NETWORKING
ONLY €595!

THE CONFERENCE WHERE INDUSTRY SUPPLIERS MEET THEIR CUSTOMERS
- NOW IN ITS 10TH YEAR!

Hesperia Tower Hotel
Barcelona, Spain
June 8-9, 2011



“Great conference! My favourite in the industry”

“Excellent & outstanding in comparison to other conferences”

“Very interesting presentations - and enough time for serious discussions during the breaks & receptions”

PRINTHEADS ♦ INKS ♦ CHEMICALS & MATERIALS ♦ SYSTEM COMPONENTS ♦ SYSTEM INTEGRATORS ♦ INSTRUMENTATION

COME FOR INSPIRATION - INDUSTRY OVERVIEWS

Hear a range of invited speakers inform and inspire you about new applications and markets that are offering exciting new opportunities for ink jet technology - from Mark Hanley, **IT Strategies**, Paul Morgavi, **Impika**, Marcel Slot, **Océ** and Prof. Brian Derby, **University of Manchester**

HEAR KEY SUPPLIERS PRESENT NEW PRODUCTS

Hear the leading suppliers of hardware, inks, curing systems and other components and services to the ink jet industry present their company's products and services. Each supplier will give a 15 minute presentation on their company and products. Think how much you can learn without travelling the world to meet with them all!

MEET THE SUPPLIERS AT THE DEVELOPERS FAIR

Meet with the leading suppliers to the ink jet industry during the inclusive conference breaks, lunch and evening receptions. Make those important first contacts, catch up on the latest developments and products, or remake old contacts and discuss your latest application or seek advice. Contact the suppliers beforehand and schedule a private meeting.

FREE TRAINING - INK JET TECH TALKS

Join our optional tutorials at no extra cost for registrants to the Ink Jet Technology Showcase 2011. Listen to the experts discuss some of the latest scientific findings and techniques - information that you can use immediately!

FEATURED INDUSTRY SUPPLIERS

adphos Digital Printing
Agfa Integrated Ink Solutions
Amica Systems
Collins Ink
Digital Direct Technologies
D&K Engineering
Dr. Hönle
FUJIFILM Dimatix
FUJIFILM Imaging Colorants
Global Inkjet Systems
ImageXpert
Industrial Inkjet
Integration Technology
Lumen Dynamics
Netzsch
Olivetti
Pivotal Resources
Ricoh Printing Systems
Sepiax Ink Technology
Sun Innovations
Sunjet
TTP Meteor
Xennia Technology

Why not come early for.....

June 6-7, 2011

INK JET ACADEMY: Theory of Ink Jet Technology

A 1 1/2 day comprehensive course describing the basics of ink jet and ink technologies through to the latest advances, led by Mike Willis of Pivotal Resources and Dr Alan Hudd and Dr Tim Phillips of Xennia Technology. In 11 years over 2,000 have attended this broad and continuously updated introduction to this fast growing technology.

June 6-7, 2011

UV INK JET PRINTING COURSE

Want to learn more about formulating UV-curable inks, using and curing them? Experts in their fields will take you through all of the issues and get you up to speed on this 1 1/2 day course.

Ink Jet Technology Showcase 2011

Wednesday, June 8, 2011

9:00 A.M. REGISTRATION OPENS

TECH TALKS

9:30 A.M.
ADVANCES IN UNDERSTANDING THE PERFORMANCE OF INK JET FLUIDS
Dr. Graham Martin, Cambridge University

10:15 A.M.
INK TESTING FOR INDUSTRIAL INK JET PRINTHEADS
Dr. Kay Yeong, Xennia Technology

BREAK

11:30 A.M.
KEEPING IT WORKING – NOZZLE MAINTENANCE
Mike Willis, Pivotal Resources

12:15 P.M.
KEEPING IT FLOWING
Rob Harvey, AtomJet

1:00 P.M. REGISTRATION
LIGHT REFRESHMENTS

INK JET TECHNOLOGY SHOWCASE 2011

2:30 P.M. OPENING SESSION

INTRODUCTION TO INK JET TECHNOLOGY SHOWCASE 2011
Alvin G. Keene, President, Information Management Institute, Inc.,
Carrabassett Valley, Maine, USA
SHOWCASE CHAIRMAN
Mike Willis, Managing Director, Pivotal Resources & IMI Europe, Cambridge, UK

2:45 - 3:30 P.M. KEYNOTE PRESENTATION

INKJET'S PLAY FOR LEADERSHIP
Mark Hanley, President, IT Strategies, Hanover, Massachusetts, USA

- Which markets and which technologies qualify?
- Hi-volume inkjet's unresolved issues
- Inkjet's challenge to electrophotography
- maybe premature?
- Market projections by sector
- Vendor review



3:30 - 6:15 P.M. TECHNOLOGY SUPPLIER PRESENTATIONS

15 minute presentations from the key suppliers in the ink jet industry

6:15 - 7:00 P.M. KEYNOTE PRESENTATION

APPLICATIONS FOR INKJET PRINTING IN BIOTECHNOLOGY
Prof. Brian Derby, School of Materials, University of Manchester,
Manchester, UK

- Inkjet printing - a powerful tool for precision patterning and manufacture
- Recent significant developments of inkjet for biology, biomaterials, gene/protein chips and sensor structures
- Directly printing enzymes, proteins, antibodies & living cells
- Despite impressive progress, approach to date has been empirical
- Key advances in recent years and current technological obstacles
- Future applications and technical and commercial opportunities



7:00 - 8:30 P.M. RECEPTION IN EXHIBIT AREA

Thursday, June 9, 2011

TECH TALKS

9:00 - 9:45 A.M.
MECHATRONIC SYSTEM ISSUES IN INK JET DEVELOPMENTS
Werner Van de Wynckel, VdW-Consulting

9:45 - 10:30 A.M.
DPI & RESOLUTION - MORE THAN JUST NUMBERS
Julian Bane, Ink Jet Consultant, Cambridge

11:15 A.M. - 1:00 P.M.
TECHNOLOGY SUPPLIER PRESENTATIONS

15 minute presentations from the key suppliers in the ink jet industry

1:00 P.M. LUNCH



2:30 - 3:15 P.M. KEYNOTE PRESENTATION

PRINTING AS A DIGITAL FABRICATION TECHNOLOGY
Marcel Slot, Director Technology Planning & Partnerships, Research &
Development, Océ-Technologies, Venlo, The Netherlands

- How digital printing technology has changed the printing industry
- Printing of text and graphics evolving into 'printing of things'
- Digital fabrication as enabler for a paradigm shift in manufacturing
- New manufacturing technologies will change the world



3:15 - 6:15 P.M. TECHNOLOGY SUPPLIER PRESENTATIONS

15 minute presentations from the key suppliers in the ink jet industry

6:15 - 7:00 P.M. KEYNOTE PRESENTATION

HOW TO SUCCEED
Paul Morgavi, President & C.E.O, IMPIKA, Aubagne, France

- Once upon a time IMPIKA ...
- But why?
- From the garage to the lab and to an industrial company
- a "long and winding road"
- The day when the sun shines differently
- Market and technology opportunities
- What's next?
- Today and tomorrow



7:00 - 8:30 P.M. RECEPTION IN EXHIBIT AREA

Ink Jet Tech Talks

Helping you develop better products

**FREE
TRAINING!**

A series of optional tutorials at no extra cost for registrants to the Ink Jet Technology Showcase 2011. Listen to our experts discuss some of the latest scientific findings and techniques - information that you can use immediately. Just come along to our fast-track registration from 9:00 am onwards to pick up the speaker notes and your badge! The first four Tech Talks will be held on Wednesday morning from 9:30 a.m. - 1:00 p.m., the final two Thursday morning from 9:00 - 10:30 a.m.

ADVANCES IN UNDERSTANDING THE PERFORMANCE OF INK JET FLUIDS

Dr Graham Martin, Director, Inkjet Research Group, Cambridge University, Cambridge, UK

- The timescales of ink jet
- Ways of seeing
- Jets to drops and satellites
- Shear and stretch
- The invisible fluid properties
- Polymers and particles
- The impact of surface energy



Dr Graham Martin is Director for the Inkjet Research Centre at Cambridge University's Institute for Manufacturing. This was established in 2005, funded by the EPSRC and a consortium of UK companies.

He began his ink jet career at Cambridge Consultants. In 1986, he was a founder of Elmjet, developing continuous jet array printers.

www.ifm.eng.cam.ac.uk/pp/inkjet

INK TESTING FOR INDUSTRIAL INK JET PRINTHEADS

Dr Kay Yeong, Technical Inkjet Accounts Manager, Xennia Technology, Letchworth, Hertfordshire, UK

- Initial Ink Trials – What to Look for & How to Select the Best Ink
- Ink Testing Methodologies
- Typical Test Equipment & Set-Up
 - Characterization
 - Print Quality Analysis
- It Doesn't Jet – Is it the Ink or Printhead?
- Differences Between Thermal & Piezo Ink Testing



Dr Kay Yeong is Technical Inkjet Accounts Manager at Xennia Technology. Since 2004 he has been responsible for the development of a wide range of industrial inkjet products with particular emphasis on ink and process development for challenging applications and the dispensing of difficult materials. Prior to joining Xennia he worked as a post-doctoral researcher in the fields of microchemical reactor engineering and microfluidics at University College London, where he also completed a doctorate and an honours degree in Chemical Engineering. www.xennia.com

KEEPING IT WORKING – NOZZLE MAINTENANCE

Mike Willis, Managing Director, Pivotal Resources, Cambridge, UK

- Why do nozzles get dirty?
- How does this affect jetting performance?
- Cleaning methods
 - Wiping with blades or belts
 - Purging
 - Washing
 - New ideas from the patent literature
- Why automate?



Founder of Pivotal Resources, Mike has worked on the development of both toner technology and ink jet printers as well as consulting for over 25 years. Mike specialises in ink jet technology hardware, and tracks new developments and applications. Mike was a founder member of Xaar, and previously Group Leader of Non-Impact Printing at Cambridge Consultants. He graduated from the Polytechnic of Central London in 1976 with Honours in Photographic Sciences. www.pivotal.co.uk

KEEPING IT FLOWING

Rob Harvey, Director, AtomJet, Cambridge, UK

- Ink supply design issues for desk-top and industrial printers
- Ink types and their impact on materials choices
- Pumps, pipes, valves, filters and de-gassers
- Comparison of ink supplies for scanning and static head systems; re-circulating and single-ended systems
- Temperature control of heads and inks



Rob has over 20 years of experience in inkjet, from Cambridge Consultants to help found Xaar, where he held a number of senior technical management roles. Responsible for many key designs and processes, he is named on over 60 of Xaar's patents and applications. Since 2010 Rob has run AtomJet, specialising in consultancy and custom inkjet equipment development. Before stumbling into the world of printing, Rob spent 8 years developing scientific instrumentation. He graduated from Exeter University in 1980 with Honours in Engineering Science. www.atomjet.co.uk

MECHATRONIC SYSTEM ISSUES IN INK JET DEVELOPMENTS

Werner Van de Wynckel, VdW-Consulting bvba, Wolveterm, Belgium

- Scaling up from SoHo to industrial
- What are the image-quality needs and what does that mean for system accuracy?
- Types of motion systems and which to choose
- Real-time aspects of printing
- How to know the relative position between printhead and substrate accurately
- What can software & firmware do to help?



Werner is an independent freelance R&D Ink jet consultant with over 20 years of experience in the development of high-tech multi-disciplinary systems. With a strong system approach methodology he supports R&D departments during feasibility and development of new printing engines or processes. His track record spans from miniaturisation in printhead development to project management of large and innovative ink jet systems.

www.vdw-consulting.com

DPI & RESOLUTION - MORE THAN JUST NUMBERS

Julian Bane, Ink Jet Consultant, Cambridge, UK

- Limits of resolution
- History and abuse of DPI numbers
- Lowest smooth tint
- Effects of greyscale on perceived DPI
- Effect of 'light cyan' and 'light magenta' on perceived resolution



Julian graduated from Cambridge university in 1983. Since that time he has worked almost exclusively in the printing industry in the field of digital print. He has worked within the industry on products for the pre-press, press and finishing areas of the graphics arts business. Having fulfilled technical support and technical sales functions he now works as a consultant specializing in imaging and perception of images. Julian has presented at both ISNT and IMI conferences around the world.

Ink Jet Technology Showcase

Wednesday 8 - Thursday 9 June, 2011

Hesperia Tower Hotel, Barcelona, Spain

SUPPLIER DIRECTORY

This directory of Ink Jet Industry Suppliers is in alphabetical order. At the **Ink Jet Technology Showcase 2011** the suppliers will present in order of sign-up for the event. The final schedule will be published on the IMI website at www.imieurope.com June 1st with copies available at registration.

adphos

With our comprehensive knowledge and application experience of NIR, IR and UV radiation technology, we have the capability to revolutionize technical processes in entire sectors of many industries. adphosNIR® "Accelerated Drying Technology", is able to offer standard and customized solutions to OEMs and end users for integration into their process equipment to perform more efficient drying, curing or heating processes, at higher throughput speeds.

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Germany

AGFA 

Agfa Integrated Inkjet Solutions develops, manufactures and supplies customized inkjet inks & fluids for many types of systems and applications, including in-line printing and direct print. The line of ALTAMIRA high-performance inkjet inks & fluids are available for B2B customers.

Contact: Marc Graindourze
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Agfa Gevaert NV
Septestraat 27
B-2640 Mortsels
Belgium



Amica Systems

Amica Systems is an industrial piezo inkjet technologies developer and manufacturer of digital press, marking, flat-bed UV, and wide-format graphics printers. Amica offers RIP, application software, hardware, and systems for OEMs to integrate or resell inkjet equipment for numerous applications.

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Amica Systems
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WORLDWIDE PRINTER AND SUPPLIES MARKET REPORT

IMI Europe is pleased to announce that it has commissioned IT Strategies of Hanover, Massachusetts to prepare a study report entitled "Worldwide Printer and Supplies Market Report" for distribution to all registrants to IMI's programmes. This exclusive market report is updated at least twice annually and provides an ongoing source of market information based on a consistent methodology and reporting structure. The report is generated from IT Strategies' worldwide computer printer industry model.



Collins Ink Corporation

Collins Ink formulates and produces water, solvent, oil-based and specialty inks for HP TIJ 45A technologies, Kodak printing systems, CIJ and DOD printheads and UV curable platforms. Collins is in its 20th year of specializing in inkjet ink.

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www.collinsink.com

Collins Ink Corporation
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Ohio 45216
USA



Digital Direct InkBlaster™ inkjet drive electronics for Kyocera, Spectra, Dimatix, Xaar and others. Offering streaming data over Gbit ethernet, this is the most advanced and economical drive electronics available. Suitable for driving a single printhead through to a massively parallel systems. Software is compatible with windows or Linux systems.

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Digital Direct Technologies bvba
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dk engineering

D&K Engineering is a global contract R&D, engineering and manufacturing services company focused on developing and manufacturing complex electromechanical products and equipment.

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D&K Engineering
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USA

2011 Supplier Directory

Only
€ 595!



Hönle stands for more than 10 years of experience in UV-inkjet-printing. We have sold 4,500 UV-systems for inkjet, and are the market leader in high-end inkjet UV-curing systems worldwide. We have conventional UV- and UV-LED-curing technology and can exclusively supply OEMs. We have development partnerships with world leading inkjet manufacturers.

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Germany



FUJIFILM Dimatix, Inc., is a wholly owned subsidiary of FUJIFILM Corporation and is the leading developer and manufacturer of high-performance, industrial drop-on-demand inkjet printheads, micropumps, components and systems used in many, non-impact imaging, decorative and deposition applications.

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Fujifilm Dimatix, Inc.
109 Etna Road
Lebanon NH 03766
USA



FUJIFILM Imaging Colorants (FFIC) is a global leader in the design and manufacture of high performance aqueous colorants and inks for the ink jet printing market. With an enviable track record in product innovation, and extensive manufacturing capabilities FFIC brings true innovation and manufacturing scale to ink jet material supply.

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GLOBAL INKJET SYSTEMS
dynamic solutions for industrial inkjet

GIS supplies a complete package of production-ready software drivers and hardware electronics for industrial inkjet printers. Experienced in large scale single pass and scanning systems development, our powerful, flexible technology enables multi-printhead type, multi-resolution control; sophisticated image layout and high speed variable data support. GIS technology speeds development and gets you to market faster.

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Global Inkjet Systems Ltd
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ImageXpert Inc. is the world leader in vision-based inspection systems and solutions for inkjet printer manufacturers, ink formulators and jetted deposition system developers. Offering systems for measurement of drops in flight, wetting visualization, jet sustainability/life testing, as well as print quality assessment, Companies worldwide rely on ImageXpert systems in R&D and production.

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www.jetxpert.com

ImageXpert, Inc.
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USA



Industrial Inkjet Ltd

With our head office near Cambridge, England, we are the official sales and technical support centre for Konica Minolta industrial inkjet products. We have local technical staff in Russia, North America and South America. We provide complete solutions for the successful implementation of inkjet technology – from printheads to complete single-pass colour print engines.

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Cambridge, UK



INTEGRATION
TECHNOLOGY

Integration Technology is the world's leading supplier of UV sources for digital ink jet applications. Integration Technology offers a wide range of compact and light weight UV arc products in addition to cutting edge, solid state UV LED systems and bespoke design partnerships for Ink Jet developers.

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Excelerate®
Print Quality • In Control

by LUMEN DYNAMICS

Excelerate® UV curing solutions provide leading integrators of industrial print applications with ultimate control and reliability for highest quality. With UV light application expertise and a collaborative approach, Excelerate simplifies integration to accelerate time to market and enhance customers' competitive position.

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Lumen Dynamics
2260 Argentia Rd
Mississauga
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Canada

NETZSCH

NETZSCH Feinmahltechnik GmbH is a worldwide company that has specialised for over 30 years in fine grinding of particles for various applications both dry and wet. For the pigmented Inkjet inks, we produce wet bead mills for ultra fine grinding / dispersing of nano particles.

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NETZSCH Feinmahltechnik GmbH
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Germany



Olivetti offers OEM partners unparalleled access to their proprietary thermal inkjet technology. Olivetti is a one-stop shop for industrial printing and jetting applications. Our printhead architecture, developed specifically for the industrial market, and available in a variety of form factors, provides OEMs with the building blocks to develop custom inkjet solutions for a diverse range of customer applications.

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pivotal
resources

We operate at the forefront of ink jet technology, working for vendors and users worldwide. We assist in defining and reviewing product strategies, support the development of new products and processes, and help our clients gain market position. Our clients include many familiar names. Among our services and activities are Directions, our ink jet patent review service and the Ink Jet Academy course.

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RICOH

RPSA is a leader in providing technologically advanced ink jet print heads for industrial printing and other markets and is world renowned for its product performance, reliability and specialization.

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SEPIAX
Ink Technology

Water Based Resin Inks for digital print in industrial applications. SEPIAX develops and distributes the world's first, harmless, water-based pigmented ink which prints on practically any media, and outperforms existing ink systems. SEPIAX "Aquares" Technology is opening up outstanding business opportunities, for new applications, in the world of industrial printing.

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SUN Innovations Company develops, produces and sells different kinds of hi-tech machinery, equipment and expendables for inkjet printing. Our UV-LED printing service (inkjet printing with UV LED light curing nanoink) allows printing of photo quality images directly on glass, plastic, wood, canvas or other materials.

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Ink Jet Technology Showcase 2011

6 TECH TALK TUTORIALS

4 KEYNOTES

10 HOURS of PRESENTATIONS

6 HOURS of NETWORKING

Join us each evening for beer, wines, cocktails and hors d'oeuvres at our all inclusive receptions. This is time to visit the suppliers exhibits, meet with the speakers, and network with the other Ink Jet Technology 2011 Showcase delegates!

SunJET®

DIC Inkjet Solutions

SunJet has been for 10 years a leading global supplier of premium, high-quality ink jet inks for industrial and commercial print applications. SunJet offers strong technical capabilities and industry knowledge by leveraging the market strength of its parent company, Sun Chemical Corporation, and DIC, world leaders in products and services for print.

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The Technology Partnership plc (TTP) is a 300-strong, independent technology and product development services company. TTP's Meteor business group supplies printhead driver components to the industrial inkjet industry. Meteor printhead driver electronics and data path software accelerates time to market and de-risks inkjet print system development.

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As the world's leading chemistry-driven industrial inkjet integrator, we've been revolutionising outdated manufacturing processes by pioneering inkjet as a reliable and viable production process for over 14 years. We remain at the forefront of helping OEM partners and their end customers translate inkjet ideas into reality; in markets as diverse as product decoration, ceramics, textiles, packaging & printed electronics.

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IMI 2011 CONFERENCE PROGRAMMES

UV Ink Jet Printing Course

June 6-7, 2011

Ink Jet Academy: Theory of Ink Jet Technology

June 6-7, 2011

Ink Jet Technology Showcase 2011

June 8-9, 2011

Hesperia Tower Hotel, Barcelona, Spain

4th Annual Digital Printing Presses Conference – Road Map to 2020

June 20-22, 2011

1st Digital Manufacturing Conference – Opportunities for Manufacturing Rebirth

June 22-24, 2011

Hollywood Beach Marriott, Hollywood (Ft. Lauderdale), Florida, USA

Ink Jet Academy: Practice of Ink Jet Technology

June 20-23, 2011

Letchworth, Hertfordshire, UK

Ink Jet Academy: Practice of Ink Jet Technology

October 2011 – Specific Dates to be Announced

Letchworth, Hertfordshire, UK

Ink Jet Academy: Theory of Ink Jet Technology

November 7-8, 2011

AWA Inkjet Label & Packaging Print Seminar

November 8-9, 2011

19th Annual European Ink Jet Printing Conference

November 9-11, 2011

Sheraton Lisboa Hotel, Lisbon, Portugal

8th Annual Security Printing Conference

November 16-18, 2011

Hollywood Beach Marriott, Hollywood (Ft. Lauderdale), Florida, USA

Digital Printing World 2012 Conferences

Winter, 2012

Dates and U.S. Location to be Announced

For additional information and registration information visit www.imiconf.com

INK JET TECHNOLOGY SHOWCASE 2011 MEDIA PARTNERS



Industrial + Specialty Printing - Magazine for functional and decorative printing as part of the manufacturing process

INDUSTRIAL + Specialty Printing Industrial + specialty printing - Magazine is the only magazine focusing on functional and decorative printing as part of the manufacturing process, i.e. where the end product is not the print itself, but another final product. Printed images include but are not limited to solar cells, membrane switches, RFID, medical devices with flex circuitry, nameplates, panel fronts, printed electronic components, instruments & gauges.

www.industrial-printing.net



A free monthly magazine dedicated to the Microtechnologies that Yole Développement tracks in its market research activities. It provides a clear snapshot of the evolution of the business. Supplements add in-depth focus on 3D packaging, PV Manufacturing, MEMS and Microfluidics on a rotating basis. Similar content can be found on the news portal www.i-micronews.com

Packaging

Essentials

Converting

Packaging & Converting Essentials - Web portal for all things packaging

Packaging & Converting Essentials is an online resource for professionals in the packaging, graphical, converting, related equipment and supply chain industries. The target group is everyone with a professional interest in packaging, graphical, converting and related equipment industries, including processes that make these industries tick.

www.packagingessentials.com



In Latin, "Veritas et Visus" means "Truth and Vision". Our mission is to provide readers with pertinent, timely and affordable information about the flat-panel display industry, with the goal of bringing together

news, interviews, conference summaries, tutorials, and analysis. Veritas et Visus offers five specialty newsletters covering Flexible Displays, 3D Displays, Touch Screens, High Resolution and Display Standards.

www.veritasetvisus.com

INTRODUCTION

IMI's Ink Jet Technology Showcase is a proven programme concept to enable current and potential ink jet printing system developers, integrators and users to obtain detailed technical information and establish professional working relationships with ink jet printing technology providers - printheads, inks, curing systems, materials, instrumentation, etc.

The Ink Jet Technology Suppliers Showcase 2011 will provide:

- **4 Keynote presentations** by acknowledged experts
- **Exhibits** by key ink jet printing technology suppliers
- **Technology supplier presentations** highlighting their technology's capabilities, applications & advantages
- **6 Ink Jet Tech Talks** tutorials by industry experts
- **Reference binder & CD** containing technology suppliers presentation notes
- **IT Strategies report "The Numbers"** containing market size and forecast information for the printer and supplies market worldwide
- **Opportunities for privately scheduled meetings** to discuss your specific needs and requirements with technology supplier companies' representatives at the conference
- **Networking opportunities** with all categories of ink jet printing professionals

This is a unique opportunity brought to you by IMI to review and evaluate ink jet printing technology options in a cost effective and timely manner. You might easily spend the same on travel and accommodation to visit just one of the vendors at our event - so for the registration fee you get to meet all of them!

Participation in IMI's Ink Jet Technology Showcase 2011 could well be the most productive two days ever in your efforts to utilise ink jet printing technology in your company's future. **Register now!**

**Downloadable brochure,
hotel booking form and
on-line registration at
www.imieurope.com**

Hesperia Tower Hotel, Barcelona, Spain

The Ink Jet Technology Showcase 2011 and supporting programme is being held at the Hesperia Tower Hotel, Barcelona, Spain. This fabulous modern hotel and conference facility is minutes from Barcelona's main airport, roughly half way between the airport and downtown. It's also affordable, with our special room rate of €140 per night including breakfast and WiFi. The hotel offers a free shuttle from the airport, and also from the hotel to downtown - see our web site for further details. In addition right across the street is a metro station linking you to anywhere in Barcelona.



Opened in 2006, the new Hesperia Tower Hotel has 280 luxurious and attractively furnished air conditioned rooms with fully equipped bathrooms to offer its guests. With rooms ranging through to the elegant presidential suite, guests are sure to find the exact accommodation they require.

Rising up to a height of 107 metres, this is one of Barcelona's tallest and most symbolic towers and is a landmark in the city. Designed by prestigious architect Richard Rogers in collaboration with Alonso & Balaguer, the hotel impresses from the moment you enter the soaring atrium with its comfortable seating and elegant bar area.

It also boasts a 5,000 sq. m. convention centre

fully equipped with the most modern audiovisual technologies. There is also a sports centre with large indoor pool, solarium, spa, sauna and steam baths, as well as a full range of exercise machines. (For rates and restrictions please contact the hotel reception.)

The tower is crowned by Evo, a spectacular domed panoramic restaurant accessed by a glass-enclosed staircase offering stunning views over the surrounding city. It provides the perfect setting to sit back, relax and enjoy a perfect meal prepared by world-renowned chef, Santi Santamaria and his assistants.

Special room rate before May 9, 2011 €140 single occupancy, €160 double occupancy, includes breakfast and WiFi throughout the hotel & convention centre.

This rate is available for nights June 6-9, 2011. For a longer stay or for other room types - Club, Suites - please contact the hotel directly.

To book a room, please use the downloadable form on our web site!

Hesperia Tower Hotel

Gran Via, 144. 08907 Hospitalet de Llobregat
Barcelona, Spain
Tel. +34 934135000 | Fax: +34 934135010
Email: hotel@hesperia-tower.com
Web: www.hesperia.com



Week at a glance

	9am	10am	11am	12noon	1pm	2pm	3pm	4pm	5pm	6pm	7pm	8pm
Monday June 6					Registration	Ink Jet Academy Course				Reception		
						UV Ink Jet Printing Course						
Tuesday June 7	Ink Jet Academy Course				Lunch	Ink Jet Academy Course						
	UV Ink Jet Printing Course					UV Ink Jet Printing Course						
Ink Jet Technology Suppliers Showcase 2011												
Wednesday June 8	Registration				Registration	Intro	Keynote Mark Hanley	Supplier Presentations			Keynote Brian Derby	Reception
	Ink Jet Tech Talks Free training for Showcase registrants						Technology Supplier Exhibits					
Ink Jet Technology Suppliers Showcase 2011												
Thursday June 9	Ink Jet Tech Talks		Supplier Presentations		Lunch	Keynote Marcel Slot	Supplier Presentations			Keynote Paul Morgavi	Reception	
	Technology Supplier Exhibits											

Course leaders



**Mike Willis, Managing Director
Pivotal Resources**
Cambridge, UK

Mr. Willis founded Pivotal Resources, a consultancy in the digital printing industry, in 1995. He has experience in a wide range of technologies and markets including drop-on-demand and continuous ink jet printing, electro-photographic technology, greyscale and colour reproduction methods and light sensitive materials.

Prior to founding Pivotal Resources, Mike was Director of Electronic Printing at Meta Generics. Mr. Willis was a founder member of Xaar - a spin-off company from Cambridge Consultants where Mr. Willis spent ten years working in a number of roles, culminating as Group Leader of Non-Impact Printing. Before that, he spent six years at Gestetner developing photocopiers.

Mr. Willis graduated from the Polytechnic of Central London with an honours degree in Photographic Sciences.



**Dr. Alan L Hudd, President & CTO
Xennia Technology**
Letchworth, UK

In 1996, Dr. Hudd founded Xennia Technology, the world's first independent contract ink jet technology house dedicated to the industrial and office ink jet industries.

Since then, Dr. Hudd has grown Xennia into a leading player in the rapidly emerging market for industrial ink jet technologies. Under Dr. Hudd, Xennia has developed a unique set of ink jet chemistry, engineering and problem solving capabilities that has resulted in a number of important technology innovations, especially in the field of ink jet dispensing of difficult materials.

Xennia is the world's leading chemistry driven industrial ink jet integrator. Xennia provides a complete contract R&D service to support the development of a new application. Xennia supplies printers and inks for production line solutions to OEM's and end-users across a range of industrial applications. Xennia is part of the Royal Tencate Group.

Ink Jet Academy

Theory of Ink Jet Technology

Monday 6 - Tuesday 7 June, 2011

Hesperia Tower Hotel, Barcelona, Spain

1.5 day course

pivotal
resources

XENNIA

THE THEORY OF INK JET TECHNOLOGY

The InkJetAcademy provides a programme and format to get an expert start in the ink jet industry, to get an update or to open up new ink jet fields.

Understanding the fundamentals is a prerequisite to any development. The Ink Jet Academy offers a one and one-half day course covering the basic theory of all the diverse types of ink jet technology

in use today. Learn how the printheads work, what materials are used in their fabrication and the theory of operation. Learn about inks and media, how they are formulated and the supply and support systems. This course assumes a basic scientific knowledge and will provide a useful background to anyone entering the ink jet industry or seeking an efficient update of ink jet technology.

Monday June 6, 2011

1:00 p.m. - 2:00 p.m. Registration
2:00 p.m. Opening session

INTRODUCTION

- Course overview
- Types of ink jet technology
- Brief history
- Drop on demand technologies
- Thermal & piezo ink jet
- State of the art
- Office & SOHO markets & applications

INDUSTRIAL APPLICATIONS

- Evolution of industrial ink jet printing
- Technology advances
- Printheads & printers
- Ink technologies
- Current status & emerging applications

INK TECHNOLOGY

- Understanding the ink jet printing process
- Designing an ink jet ink
 - Piezo drop on demand
 - Continuous ink jet
 - Thermal ink jet
- Properties influencing ink jet performance
- Typical performance issues
- Diagnosing typical ink problems
- Ink types: solvent, aqueous & UV cure
- Testing an ink for reliability: methods & characterisation

DOD PRINthead DESIGNS AND VENDORS

- Thermal ink jet
- Piezo ink jet
 - Piston mode designs
 - Roof mode actuators
 - Stacked piezo technology
 - Shear mode designs
 - Silicon printheads

6:00 p.m. Session closes
6:00 - 7:00 p.m. Reception

Tuesday June 7, 2011

9:00 a.m.

MATERIALS FOR INK JET INKS

- Typical material requirements for successful ink jet printing
- Polymers, dyes & pigments
- Pigment dispersion technology & processing techniques
- Key suppliers
- Advances in UV curing ink technology
- Formulation considerations
- Challenges, properties & current performance

DOD PRINthead DESIGN CONSIDERATIONS

- Drop ejection frequency
- Crosstalk
- Printhead life
- Temperature control
- Drop placement accuracy
- Considerations for page arrays
- Greyscale techniques
- Drive waveforms

1:00 - 2:00 p.m. Lunch

PRINT & IMAGE QUALITY

- Factors affecting print quality
- Technologies to improve print quality
- Improving image quality

SYSTEM DESIGN ISSUES

- Nozzle maintenance
- Drop detection
- Filling/bubble removal
- Ink supply and replacement

FUTURE DEVELOPMENTS

- Evolution of current technology
- Hardware & ink technology advancements
- Status & developments of ink technology
- Important future applications
- Recent & projected trends

5:00 p.m. Adjournment

UV Ink Jet Printing Course

Monday 6 - Tuesday 7 June, 2011

Hesperia Tower Hotel, Barcelona, Spain

1.5 day course

COURSE FOCUS

As ink jet printing continues to make technology advancements in product functionality, cost performance, print quality and colour printing capabilities, the interest in utilisation of UV-based ink jet systems is expanding rapidly. IMI's UV Ink Jet Course is designed to provide thorough coverage of basic UV chemistry, curing, issues critical to UV-based ink jet systems implementation and how UV technology has been implemented in current products and applications.

While UV inks provide instant drying; enable a wide choice of substrates; result in good end use

properties (adhesion, durability, flexibility, etc.) and enable good printhead reliability - potential users must understand basic UV chemistry, UV ink components, ink formulation issues, hardware development criteria, health & safety issues etc. to effectively and successfully implement UV ink jet systems.

As UV ink jet printing continues to expand, IMI's UV Ink Jet Course provides a unique opportunity to obtain information and insights critical to UV ink jet printing technology implementation in ever growing market and application sectors.

Monday June 6, 2011

1:00 p.m. - 2:00 p.m. Registration
2:00 p.m. Opening session

WELCOME

Alvin G. Keene, President, Information Management Institute, Inc., Carrabassett Valley, Maine, USA & Director, IMI Europe, Cambridge, UK

UV CHEMISTRY

COURSE SESSION LEADER:

Ian Hutchinson, Market Development Manager, Sartomer Europe, Paris, France

- Basics of UV curing chemistry
 - Safety & handling issues
 - Mechanisms of UV photopolymerization
 - Advantages of UV curing ink jet systems
- UV chemistry for ink jet systems
 - Monomers
 - Oligomers
 - Photoinitiators
- Models of UV ink jet systems
 - Adhesion
 - Cure
 - Pigment dispersion

6:00 p.m. Session closes
6:00 - 7:00 p.m. Reception

Tuesday June 7, 2011

9:00 a.m.
UV CURING

COURSE SESSION LEADER:

Dr. Nick Campbell, Project Manager, Inca Digital Printers, Cambridge, UK

- Curing technologies: Operation & differences
 - Mercury arc
 - Xenon discharge
 - Fluorescent lamps
 - Excimer lamps
 - Lasers, Microwave, Electron beam
 - LED's (UV & visible)

- Challenges with UV curing equipment on ink jet printing machines
 - Heat management
 - Dealing with stray UV
 - Oxygen inhibition & inerting
- Approaches to UV curing in single pass and multi pass printing
 - Differences between single pass & multi pass curing
 - "Pinning" using lower intensity sources
 - Examples of UV curing in single pass and multi pass systems

1:00 - 2:00 p.m. Lunch

UV PRODUCT IMPLEMENTATION & APPLICATIONS

COURSE SESSION LEADER:

Dr. Simon Daplyn, Inks Development Manager, Xennia Technology Limited, Letchworth, Hertfordshire, UK

- Understanding ink jet printing process for UV curable materials
- UV ink formulation challenges & role of substrate
 - Controlling dot quality at speed
 - Pigment dispersions
 - Ink jet properties
 - Current limitations
- UV ink jet hardware configurations
 - Review of suitable printheads
 - Integration issues
 - System reliability
 - Current integrators
- Commercial UV ink jet systems: implementation, performance & applications
- UV ink jet applications: requirements, opportunities & challenges
 - Commercial printing
 - Electronics
 - Product decoration
 - Coatings
 - Manufacturing
 - Others
- Future trends in UV ink jet

5:00 p.m. Adjournment



COURSE LEADERS

Ian Hutchinson, Market Development Manager Sartomer Europe
Paris La Defense, France

After gaining a degree in Chemistry Ian Hutchinson has worked for 25 years in the coatings, printing inks and chemicals industry. For the last 12 years he has been working for leading manufacturers in acrylate materials both in technical and commercial roles. His current role as Market Development Manager for Sartomer Europe is to develop new applications for technology.

Dr. Nick Campbell, Project Manager Inca Digital Printers
Cambridge, UK

Nick Campbell is a Project Manager at Inca Digital Printers, where he has worked since 2002. He is responsible for developing large format flat-bed ink jet printing systems, which employ drop-on-demand printheads to dispense UV curing inks.

He has worked for several high technology companies, including Cambridge Instruments, where he carried out developments on electron beam writing machines and electron microscopes.

He has a PhD in Electrical Engineering and an honours degree in Natural Sciences from Cambridge University.

Dr. Simon Daplyn, Inks Development Manager Xennia Technology Limited
Letchworth, Hertfordshire, UK

Dr Simon Daplyn Joined Xennia Technology in 2008 and is the Ink Development Manager, responsible for new ink developments and R&D projects.

Before joining Xennia Simon graduated with an MSc in Colour and Polymer Chemistry from the University of Leeds before gaining a PhD in Inkjet Printing onto Textiles from the same university.

Simon then went on to work for Nanojet Ink, based in Newcastle upon Tyne, where he was Technical Manager of textile ink developments.

Ink Jet Academy

Practice of Ink Jet Technology

Hands-on printhead and inks course



June 20–23, 2011

October, 2011 (date to be confirmed)

Introduction

The Ink Jet Academy 'Practice of Ink Jet Technology' offers the first dedicated practical ink jet course aimed at chemists and technologists looking to develop and enhance their ink jet experience. Covering all important aspects necessary in the development and formulation of reliable ink jet fluids and ink jet system configuration, the course provides the ideal platform for laboratory staff looking to improve their knowledge of ink jet for industrial applications.

The course draws upon Xennia's extensive industrial ink jet experience of ink formulation and industrial ink jet integration. Combining in-depth classroom taught theory sessions with practical demonstrations and experiments, course attendees will have the opportunity to formulate and evaluate inks and perform jetting trials with a range of high tech industrial printing platforms at Xennia's state-of-the-art ink jet laboratories located near Cambridge, UK.



Monday

1:30 p.m.

WELCOME & COURSE OUTLINE

OVERVIEW OF INK JET PRINTING (Lecture)

INTRODUCTION TO INK DESIGN AND TESTING (Lecture)

- Critical aspects for the formulation of reliable ink jet fluids
- Physical properties of ink jet inks
- Ink types, (UV, Solvent, Aqueous, Oil)

TECHNOLOGY DEMONSTRATIONS (Practical)

- Hands on experience of operating a range of inkjet printing equipment

5:30 p.m. Adjournment

Location

Xennia's modern laboratories are located in Letchworth, Hertfordshire, UK. Letchworth is 35 minutes from London by train and equidistant with Cambridge. We will provide details of local hotel accommodation and provide transport to and from Xennia at the start and end of each day.

Registration Information

For further information on any of the courses please either check the Ink Jet Academy pages on our web sites at www.imieurope.com or www.imiconf.com, email christine@imieurope.com or call IMI Europe at +44 1223 236920 or IMI Inc. at +1 207 235 2225.

The Practice of Ink Jet Technology course is run 2-3 times a year in the UK. Courses are subject to a minimum of 8 and maximum of 12 attendees. Please register your interest in participating on a course via our web site at www.imieurope.com or by calling IMI Europe. We will then confirm course dates and arrangements around 8 weeks before the course begins.

Private and in-house courses - contact us for details on running the theoretical courses at your premises. Private sessions of the Practice of Ink Jet Technology are also available and allow full confidentiality and some flexibility of course content.

Tuesday

9:00 a.m.

OVERVIEW OF INK MANUFACTURING (Lecture)

- Ink manufacturing process, mixing, milling, dispersions and filtration
- Scale up from lab to manufacture
- Manufacturing quality control practices

PRACTICAL INK MAKING (Practical)

Attendees will gain practical experience of formulating and characterising ink jet fluids to include key aspects of:

- Mixing
- Preparing pigment dispersions
- Filtration
- Physical characterisation and QC process

Lunch

CONTINUATION OF PRACTICAL SESSION

5:30 p.m. Adjournment

7:00 p.m. Course dinner

Wednesday

9:00 a.m.

OVERVIEW OF INK JET CHARACTERISATION TECHNIQUES (Lecture)

INK JET CHARACTERISATION OF DIFFERENT INKS AND DIAGNOSING PERFORMANCE (Practical)

Practical demonstration using visualization equipment to show:

- The effect of waveform on drop break-up, ligament and satellite formation for good and bad inks
- Droplet break-up
- Ligament behaviour
- Satellite formation

Lunch

OVERVIEW OF MEASURING APPLICATION AND SUBSTRATE PROPERTIES OF PRINT (Lecture)

- Image characterization techniques
- Factors affecting print quality
- Techniques to measure adhesion, scratch resistance, abrasion, optical density and other end user properties

END USER PROPERTY MEASUREMENT OF INKS (Lecture)

- Overview of application specific print performance parameters

5:30 p.m. Adjournment

Course fees

Course fees are £2,500 with a 10% discount for a second or more registrations from the same company.

The fees include course notes, lunches, Tuesday's course dinner, coffee and tea breaks (but not accommodation).

Thursday

9:00 a.m.

INKJET CONFIGURATIONS (Lecture)

- Overview of typical ink jet configurations
- XYZ printing systems
- Reel to reel/web based systems
- Fixed array/scanning

INK JET CONFIGURATION DEMONSTRATIONS (Practical)

Practical demonstrations of printing systems incorporating scanning, fixed array, XY and web based units

Lunch

INK JET INTEGRATION AND MAINTENANCE ISSUES (Lecture)

- Managing ink, fluid and motion system for printer reliability
- Integration examples
- Typical modes of failure and trouble shooting

INTEGRATION AND MAINTENANCE DEMONSTRATIONS (Practical)

Practical demonstrations of:

- Priming and wetting
- Typical maintenance regimes
- Correct procedure for filling print heads

CURRENT INK JET DEVELOPMENTS AND TRENDS (Lecture)

- Developments in printhead technology
- Overview of established, emerging and embryonic applications for ink jet

INKJET SURGERY

Ask the experts!
• Question and answer sessions

5:30 p.m. Adjournment

INK JET TECHNOLOGY SHOWCASE 2011

- 6 Ink Jet Tech Talk tutorials
 - 4 Keynote presentations
 - Attendance at all sessions
 - Conference reference binder & CD
 - One lunch
 - Two receptions
 - Coffee breaks
- Registration fee €595, £495, \$745

UK VAT at 20% will be added to all UK companies only

**THE INK JET ACADEMY
THEORY OF INK JET**

- Attendance at all sessions
 - Course reference binder
 - One lunch
 - One reception
 - Coffee breaks
- Registration fee €1,045, £895, \$1,245

UV INK JET PRINTING COURSE

- Attendance at all sessions
 - Course reference binder
 - One lunch
 - One reception
 - Coffee breaks
- Registration fee €1,045, £895, \$1,245

MULTIPLE RATES AND DISCOUNTS

2 or more registrants from the same company for same event

Academic rate for Ink Jet Technology Showcase only

Ink Jet Academy Course or UV Ink Jet Printing Course + Ink Jet Technology Showcase 2011

€80, £70 or \$100

€295, £255, \$385 - saving €300!

€1,560, £1,320, \$1,890 - saving €80!

You can only receive one discount per person. Confused? No problem, just register and we will apply the maximum discount you are entitled to!

BOOKING POLICY

Cancellations will receive a 100% refund of course fees if made 72 hours prior to the start of the course or conference. Substitutions may be made at any time but please let us know!

HOW TO REGISTER

- 1 Please register on-line via our web site - www.imieurope.com
We will email to you your registration information and an invoice with details of how, when and where to pay.
You can pay by bank transfer in £, € or US\$ or by credit card through a secure on-line service
- 2 Alternately fill in the form below (copy first if you wish to register more than one person), and fax it to: Christine Reed at IMI Europe, Cambridge, UK - Fax: +44 1223 235901

INK JET INDUSTRY SUPPLIER?

Are you a supplier of products or services to the ink jet industry? Would you like to speak and exhibit at the **Ink Jet Technology Showcase 2011**?

Then please contact either Mike Willis mike@imieurope.com or Al Keene al@imiconf.com and we will explain how to join our event

I wish to pay by Bank Transfer in the following currency: Euro € UK £ US \$

I wish to pay by credit card (all major cards accepted) Payment will be billed in UK £ at the daily rate

Hotel reservations and charges are the responsibility of each registrant - Special room rate €140 per night including breakfast & WiFi is available up to May 9, 2011. See page 7 for details and our web site for a downloadable booking form.

REGISTRATION FORM

Conference or Course required - indicate below

- INK JET TECHNOLOGY SHOWCASE 2011** € 595 £ 495
- INK JET ACADEMY** € 1,045 £ 895
- UV INK JET COURSE** € 1,045 £ 895

June			
Monday 6	Tuesday 7	Wednesday 8	Thursday 9
		Ink Jet Tech Talks	INK JET SHOWCASE
	INK JET ACADEMY		
	UV INK JET COURSE		

I'm planning to attend the Ink Jet Tech Talk tutorials Wednesday am

NAME JOB TITLE

COMPANY VAT No*

ADDRESS

CITY POSTCODE COUNTRY

PHONE FAX:

EMAIL

* VAT No. required for all EU registered companies, including UK.