

Catalonia
Barcelona
Plaza Hotel,
Barcelona,
Spain



COURTESY OF TURISME DE BARCELONA

■ 12th Annual European Ink Jet Printing Conference

**INCLUDES FREE
SUPPLIERS FORUM
& DISPLAYS!**

Wednesday 20th - Friday 22nd October, 2004

Join us for the biggest and best ink jet conference this autumn. Learn about the latest technology and market developments, hear the major vendors announcements, and network with the movers and shakers from this fast growing industry

■ Digital Perspectives Seminars 2004

Monday 18th - Tuesday 19th October, 2004

Six half-day seminars by industry experts providing updates on digital printing technology and markets in more depth than conference presentations.

DIGITAL COMMERCIAL PRINTING

THERMAL PRINTING & IMAGING

PAPER COATINGS & MEDIA

SECURITY PRINTING

EMERGING CHINESE MARKETS

DIGITAL PHOTOGRAPHY

■ Ink Jet Academy Theory of Ink Jet Technology

Monday 18th - Tuesday 19th October, 2004

A 1½ day comprehensive course describing the latest advances in ink jet technologies, led by Mike Willis of Pivotal Resources & Alan Hudd of Xennia Technology. In six years over 1,200 have attended this broad and up to date introduction to ink jet

PIVOTAL RESOURCES
MARKETS • TECHNOLOGY • RESEARCH • CONSULTANCY

XENNIA
INNOVATIVE INKJET SOLUTIONS

IMI EUROPE

IMI runs the largest and most comprehensive conference and seminar programme in the digital printing industry. Each year over 2,000 industry technical and management personnel from over 600 companies attend more than 20 programmes covering ink jet, thermal, laser, high-speed digital printing, industrial and other digital printing technologies, markets and applications.

THE CONFERENCES

IMI Europe brings together a major annual conference, a new seminar programme plus the acclaimed course - The Ink Jet Academy. Each programme has been designed to give participants a thorough technical and marketing perspective of their industries, with presentations by acknowledged leaders in their field. Completely up to date, there is simply no better information available.

THE LOCATION

This autumn we have chosen Barcelona for our conference programmes. This two thousand year old city is the capital of Catalonia. In the gothic quarter is the nucleus of the medieval buildings and Roman fortifications, yet no other city has such a wide selection of modernist architecture. The climate in October should be mild, giving you opportunities to explore this exciting city.

WELCOME TO DIGITAL PRINTING 2004

IMI Europe has once again put together an outstanding programme for Digital Printing 2004. Our 12th Annual European Ink Jet Printing Conference is packed with the latest overviews, updates and technology developments for office, industrial printing and media. This year we complement the conference with a seminar series - **Digital Perspectives 2004**. Here industry experts give overviews and updates of different technology and market areas to bring you up to speed or to give you a timely update. And if you need to get up to speed with ink jet, join our very popular and successful course - the **Ink Jet Academy - Theory of Ink Jet Technology**.

Our programmes offer the best value in the industry - great registration rates, discounts for multiple registrations, and opportunities to network with the speakers and attendees at our inclusive lunches and receptions. Also conference registrants are welcome to display company literature in our separate display area.

How could you miss it. See you in Barcelona!

Mike Willis, Managing Director, IMI Europe Ltd

WORLDWIDE PRINTER AND SUPPLIES MARKET REPORT

Information Management Institute, Inc. 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.



Digital Printing Conferences 2004

LOCATION

The Catalonia Barcelona Plaza is a modern hotel located in Barcelona's best business area, a few metres from the Barcelona Trade Fair and the Convention Hall. Only 15 minutes from the airport and a short distance from the central railway station. It is also very near the main shopping and leisure areas of the city.

The Hotel offers 338 fully equipped double rooms and 9 suites. All rooms have air conditioning, direct dial telephone, minibar, satellite TV and safe deposit box, among other amenities. The hotel also provides customers with parking facilities, a travel agency, a bank branch, a club with heated swimming pool and a full fitness centre.

This hotel offers a unique opportunity to combine a relaxing weekend or vacation in Barcelona with attendance at IMI Europe's conferences.

Barcelona offers plenty of bars, restaurants, sightseeing, monuments, museums and shopping. The climate in October should be mild, giving you the opportunity to explore this fascinating city.

For additional information on Barcelona, visit the Turisme de Barcelona Web Site at:

<http://www.barcelonaturisme.com>

The Catalonia Barcelona Plaza address is:

The Catalonia Barcelona Plaza
Plaza Espana, 6-8
08014 Barcelona
Spain

Phone: +34 93 426 26 00
Fax: +34 93 426 04 00
Email: cataloni@hoteles-catalonia.es
Web Site: www.hoteles-catalonia.es

HOTEL INFORMATION

The 12th Annual European Ink Jet Printing Conference, the **Digital Perspectives Seminars 2004** and the **Ink Jet Academy** are being held at the Catalonia Barcelona Plaza. Hotel reservations and charges are the responsibility of each conference registrant. The discounted hotel rate is Euro 130 for single occupancy and Euro 145 for double occupancy - buffet breakfast included. **Early booking is advised:** The Catalonia Barcelona Plaza will guarantee the reduced rate only until **September 24, 2004**. Requests after that date will be on a space available basis. To receive the special rate, you must identify yourself as a registrant to the IMI Europe Conference.

To make hotel reservations:

Phone +34 93 426 26 00
Fax +34 93 426 04 00

or use the fax reservation form enclosed with this brochure or available on our web site at www.imieurope.com.

COMPLIMENTARY PRODUCT DEMONSTRATIONS & DISPLAYS

During the 12th European Ink Jet Printing Conference product demonstrations or displays by both conference speakers and registrants are encouraged. IMI will cooperate with all interested parties to provide appropriate space so products can be displayed and demonstrated during the conference breaks. There is no charge in addition to the conference registration fee to have a display table. Interested companies should contact Alvin Keene at IMI Inc. to book space.

email: al@imiconf.com
tel: +1 207 235 2225
fax: +1 207 235 2226

Week at a glance

	9 am	10 am	11 am	12 noon	1 pm	2 pm	3 pm	4 pm	5 pm	6 pm	7 pm	8 pm
Mon 18th					Registration	INK JET ACADEMY DIGITAL COMMERCIAL PRINTING THERMAL PRINTING & IMAGING				Reception		
Tues 19th	INK JET ACADEMY PAPER COATINGS & MEDIA SECURITY PRINTING				Lunch	INK JET ACADEMY EMERGING CHINESE MARKETS DIGITAL PHOTOGRAPHY						
Weds 20th	12th ANNUAL EUROPEAN INK JET PRINTING CONFERENCE											
	Registration Exhibit set-up	Session 1 State of the industry		Lunch	Session 2 Evolution of desk-top & graphics markets				Reception			
Thurs 21st	12th ANNUAL EUROPEAN INK JET PRINTING CONFERENCE											
	Session 3 Revolution of commercial & industrial printing			Lunch	Session 4 Advances in printhead technology			Suppliers Forum	Reception			
Fri 22nd	12th INK JET PRINTING CONFERENCE											
	Session 5 Ink & Media - What's new?											

Ink Jet Academy

Theory of Ink Jet Technology

Monday 18th - Tuesday 19th October, 2004

1.5 day course

Catalonia Barcelona Plaza Hotel,
Barcelona, Spain



THE THEORY OF INK JET TECHNOLOGY

THE INK JET ACADEMY 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 pre-requisite 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 OCTOBER 18, 2004

1:00 p.m. - 2:30 p.m. Registration

2:30 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

- Industrial drop on demand
- Continuous ink jet
- Industrial applications

INK TECHNOLOGY

- Evolution of ink jet inks
- Ink jet ink formulations
- Ink types & properties
 - Aqueous-based
 - Oil-based
 - Solvent-based
 - Phase change
 - UV curable

DOD PRINthead DESIGNS AND VENDORS

- Thermal ink jet
- Piezo ink jet
- Moving wall technology

6:30 p.m. Reception

TUESDAY OCTOBER 19, 2004

9:00 a.m.

MATERIALS FOR INK JET INKS

- Critical materials
- Colorants
- Polymers
- Solvents and additives
- Vendors & ink distribution chain

DOD PRINthead DESIGN CONSIDERATIONS

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

MEDIA & PRINT QUALITY

- Paper & coatings
- Drying mechanisms
- Light & waterfastness
- Non-paper media
- The 3 factors affecting print quality
- Technologies to improve print quality
- Improving image quality

1:00 p.m. Lunch

2:30 p.m. Sessions continue

UV CURING TECHNOLOGY

- Chemistry of UV curing
- Ink formulation issues for piezo DOD
- UV curing systems

SYSTEM DESIGN ISSUES

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

INSTRUMENTATION FOR INK JET DEVELOPMENT

- Reliability
- Jet characteristics
- Quality control

FUTURE DEVELOPMENTS

- Evolution of current technology
- New developments
- Status and developments of ink technology

6:30 p.m. Adjournment



COURSE LEADERS

Mike Willis, Managing Director
Pivotal Resources Limited
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 Limited
Royston, Hertfordshire, UK

In 1996 Dr. Hudd co-founded Xennia Technology; the world's first independent contract ink jet technology house dedicated to developing new ink jet inks for both the industrial and office ink jet industries.



In 1987 Alan joined Domino Printing Sciences and spent eight years as the Fluids Technology Manager, developing a wide range of ink jet ink for diverse applications and is credited with a number of patents and significant innovations within the industrial ink jet industry. Prior to Domino, he spent almost eight years with the Ministry of Defence and Royal Ordnance in the UK, developing new solid polymer rocket propellants for air to air missiles.

Dr. Hudd graduated with B.Sc. Honours degree in Chemistry and Physics, M.Sc and Ph.D research degrees in Polymer Chemistry from Manchester University.

Digital Perspectives Sem

Prior to the 12th Annual European Ink Jet Printing Conference choose from our six seminars designed to keep you informed of the latest developments in digital printing

SEMINAR FOCUS

Do you need an update about current digital printing technologies or applications? This new format for IMI Europe is designed to get you up to speed. Experts in each field give a half-day seminar, enabling them to go into

much greater depth than during a conference presentation. Choose up to three of the six seminars from the series to complement your trip to Barcelona and return home better informed!

Seminar pricing:

3 seminars	€ 1,050	£ 700
2 seminars	€ 750	£ 500
1 seminar	€ 400	£ 275

Attend 3 seminars and get a €100, £75 discount on the Ink Jet Conference!

MONDAY 18th OCTOBER, 2004

2:30 - 6:30 p.m.

DIGITAL COMMERCIAL PRINTING

HANS G. ANDRIESE, MANAGING PARTNER, ANDRIESE CONSULTANCY, AMSTERDAM, THE NETHERLANDS



Print is everywhere. Much of it is produced by specialised businesses and is growing at double digit rates. It impacts business and personal life in many aspects. In this seminar you will learn the status and trends for this sector, plus what much needed product and service improvements are required to be more successful in this industry.

Manufacturers, researchers and power-users alike will take from this seminar a broad overview and current status report of every aspect of this blooming business opportunity.

Hans is an international consultant and industry analyst in the areas of both commercial and corporate publishing and printing. He works for manufacturers of products and services as well as for end-users.

His expertise is in marketing, research, printing technology and business development.

He assists clients to formulate vision and strategic plans, focus on customers needs and does qualitative product/market research.

- Trends
 - Relevance of the commercial printing sector
 - Demand-side: trends in print consumption
 - Push-side: main technology trends
 - Supply-side: manufacturer trends
 - Standardisation snapshot
 - Marketing trends
- Technologies, systems and suppliers review
 - Electrophotography & commercial ink jet
 - Workflow determines productivity
 - Pre- and post-printing subsystems
- Market feedback
 - Buying behaviour & business requirements
 - Who's task? Market development
 - Future-proof business planning

THERMAL PRINTING & IMAGING

HAROLD SCHOFIELD, VICE PRESIDENT & GENERAL MANAGER, ZEBRA-ATLANTEK, WAKEFIELD, RHODE ISLAND, USA



Thermal printing is a highly diversified industry with tens of billions annual revenue dollars. Despite predictions that thermal printing would be overtaken by ink jet and electrophotography - the reliability, relative simplicity, productivity, low-cost and media adaptability of thermal technology have resulted in strong growth. Declines in fax usage have been overshadowed by thermal's dominance in point of sale and transaction document printing, bar code tags & labels, photo ID printing and most recently in digital photo printing applications.

Harold Schofield, internationally recognized thermal printing authority, founded Atlantek which became a leading thermal products and technology supplier prior to its acquisition by Zebra Technologies. The company's R&D in direct plastic card printing, colour image printing, wide format plotting, medical recording and bar code printing include an impressive array of product/technology innovations on its own behalf and for major multi-national corporations.

- Thermal technology – historical perspective
- Strategic assessment of thermal industry
- Thermal industry update by market segment
- Competitive application assessment versus competing technologies
- New applications and future trends
- Thermal printhead technology advancements
- Thermal media systems enhancements
- Application requirements for printheads and media systems
- Printer design for specialised applications
- Image optimisation techniques
- New applications require core attributes of thermal printing
- Keys to continued thermal printing growth

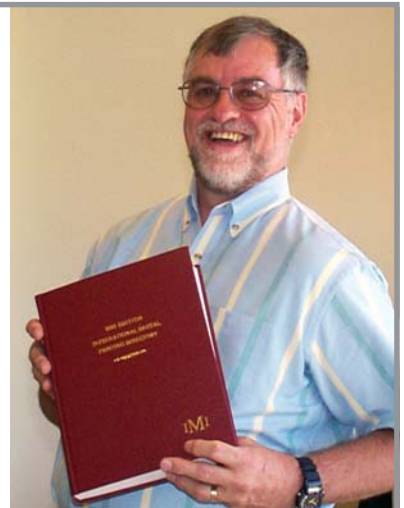
INFORMATION MANAGEMENT INSTITUTE ANNOUNCES

2004 International Digital Printing Industry Directory

IMI is pleased to announce its 2004 International Digital Printing Industry Directory. This directory focuses on the needs of the digital printing industry of the 21st Century for a comprehensive listing of hardware/supplies manufacturers and consultants active in digital printing arenas. The 2004 International Digital Printing Industry Directory's emphasis is to give individuals working within the digital printing industry one-stop-shopping for the contacts needed to help them obtain/assess products, expand business, solve problems, secure industry information, etc., in the rapidly changing and expanding digital printing industry.

- Over 600 digital printing hardware/supplies manufacturers & consultants – Complete contact information
- One-stop shopping for digital printing industry contacts
- Enquiry service
- Hard copy & electronic version
- All for \$500

For complete information visit the IMI web site www.imiconf.com or call +1 207-235-2225, Fax +1 207-235-2226 or email: imi@imiconf.com



TUESDAY 19th OCTOBER 2004

9:00 a.m. - 1:00 p.m.

INK JET COATINGS AND MEDIA

Derek Chard, Derek Chard Technologies, St. Austell, Cornwall, UK



Derek Chard Technologies serves ink jet media manufacturers and raw materials suppliers by providing product development (both practical studies and informed advice), technical support and market surveys and strategies.

Derek's expertise is built on his experience with 3 major companies: English China Clays (now Imerys), Felix Schoeller and Ineos Silicas.

This seminar will describe the various media types available for ink jet printing and will focus on coated media with particular reference to water-based ink jet. There will be an overview of coating composition and a summary of the effects on print performance will also be provided.

In order to address the choice of coating, an introduction to ink composition will be given. Having suggested various coating formulation strategies, the seminar will move on to how these coatings can be applied.

Prior knowledge of ink jet media is not required and no prior knowledge of paper coating will be presumed.

- Ink considerations
- What makes a good ink jet print?
- Types of media
 - Uncoated and surface-treated paper
 - Matt coated paper
- Silica and alternative pigments
- Binders and other additives
- Glossy media
 - Swellable
 - Microporous
- Paper v other media
- Media requirements of non-water based ink jet
- Coating technologies

SECURITY PRINTING

Martin Gomme, Technical Solutions Manager, Axess Technologies Ltd, Andover, Hampshire, UK



After several years working in process and product development in dyestuffs and coatings, Martin joined a major security printer in 1984, carrying out technical development and support work on all types of security documents. In 2001 Martin became Technical Solutions Manager with Axess Technologies, where he provides consultancy services and is co-author of several published reports.

Despite the rise of the computer screen the printed document is not dead. Modern computers, software and peripherals have given the criminal better tools to work with to carry out unauthorised replication (counterfeiting) or fraudulent alteration (forgery). The security industry strives to keep at least one step ahead. The use of security printing is widespread: financial documents, identity documents, and other categories such as event tickets, travel documents, product warranties and gaming tickets. Effective security printing consists of combining processes, materials and designs in such a way that a criminal cannot easily create a credible facsimile of the genuine article. The seminar will look at the ways in which this can be achieved to meet the needs of the particular document.

- The threats to security documents
- The different levels of security that can be employed
- An overview presenting some of the large and diverse range of technologies that can be used
- Effective security feature selection for maximum protection.
- How printing forms part of an overall security solution that includes systems, substrates and applied features.
- We will also look at some of the threats and opportunities posed by digital printing.

TUESDAY 19th OCTOBER 2004

2:30 - 6:30 p.m.

EMERGING CHINESE MARKETS AND THE IMPLICATIONS FOR WESTERN VENDORS

STEWART PARTRIDGE, MANAGING DIRECTOR, WEB CONSULTING, ABINGDON, UK



With consistently strong economic growth and the world's largest population, it is no surprise that China is forecasted by the IMF to become the global no.2 economy within the next decade.

China now boasts a vibrant digital manufacturing industry. In years to come, will many Western printing companies be using Chinese manufactured printers, media and inks, or will Western manufacturers win through against Chinese competition? Learn how to counter threats and exploit opportunities created by the digital boom in China.

Stewart Partridge is Managing Director of Web Consulting, the global consultancy to the digital and screen printing industries, with offices in UK, USA and China. His experience embraces 17 years in graphics, textile and industrial printing (technical, marketing and strategic management roles) followed by 11 years digital printing consultancy. These past four years he has directed Web Consulting's market research and client programmes within China.

- China demographics, economic overview, global positioning and unique dynamics
- Evolution of wide & grand format sectors in China
- Early success 1988-2001 for hardware importers
- 2001+ : emergence of domestic Chinese manufacturers
- Key survey results from Chinese end-users & printers
- Overview of main Chinese wide & grand format printer, ink & media manufacturers
- Emergence of OEM deals & partnerships with Chinese players
- Threats & Opportunities for printer, media, ink and software manufacturers
- Determining strategy/ tactics for dealing with China & Chinese companies

DIGITAL PHOTOGRAPHY

MARK HANLEY, PRESIDENT, IT STRATEGIES, HANOVER, MASSACHUSETTS, USA



This seminar will describe the evolution of photo image output in the consumer & professional photo markets. Digital image capture, digital communications and digital print technologies have caused the decline of film markets and have enabled a spectacular range of new applications leveraging the immediacy and communicative power of photo imagery. We will describe it comprehensively and draw a quantified map showing the links and paths these developments continue to follow. Data, numbers and anecdotal illustration will be at the core of the seminar.

Mark Hanley is president of IT Strategies, a digital imaging consultancy based in Boston & Tokyo. As an expert in digital imaging technology with long-standing involvement with the major photo technology vendors Hanley has driven his company in specialized tracking of the pioneering development of colour digital graphics & photo imaging applications.

- Baseline Metrics: Historical decline of film against the rise of digital technologies
- How digital printing beat out chemical image development
- Sectorisation model of photo-related applications
- How digital photo became the driver for complex applications focused on advertising
- Consumer photo printing market – home, retail or internet? – the trends quantified
- Commercial photo markets and digital graphics output – digital metamorphosis & rebirth into service and advertising specialists
- Digital print strategies for consumer photo and commercial digital graphics by vendor
- Evolving product/service opportunities
- Market and applications map
- Some current interesting products analysed

12th EUROPEAN INK JET PRINTING CONFERENCE

Wednesday 20th October - Friday 22nd October, 2004

CONFERENCE FOCUS

Ink jet printing continues to make technology advancements in product functionality, cost performance, print quality, and colour printing capabilities. Such improvements have made ink jet printing the leading digital printer technology and have enabled the development of new markets and applications. In addition to personal computer printing, applications such as wide format printing, photo quality printers, multifunction printers, digital presses, colour office printers, and industrial printing are providing market opportunities for ink jet printing technology, but in a very competitive environment.

Wednesday, October 20, 2004

9:00 a.m. - 5:00 p.m. Conference Registration

11:00 a.m. Session 1 STATE-OF-THE INK JET INDUSTRY

WELCOME AND INTRODUCTIONS

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

TECHNOLOGY DEVELOPMENTS AND FUTURE ADVANCEMENTS

Michael Willis, Managing Director, Pivotal Resources, Cambridge, UK
Tom Ashley, Director, Pivotal Resources USA, Lexington, Kentucky, USA

- Latest products & developments
- Drupa
- The patent scene
 - Emergence of MEMS technology
 - New players
- Ink jet as a manufacturing process
 - Printed electronics
 - Printed displays
 - Bio-medical applications
 - Other materials deposition

INK JET – NOW ON THE RADAR SCREENS OF INVESTORS

Dr Justin Hayward, Managing Director, Cambridge Investment Research Ltd., Cambridge, UK

- Changing attitudes of investors to ink jet
- Appeal of ink jet to investors
- Current ink jet revenues & geographic breakdown
- Value chain analysis
- Market structure
 - Private
 - Public
 - Independents
 - Subsidiary
- Market lifecycles
 - Coding & Marking
 - Graphic communications
- Recent deals & why: Fit analysis
 - Mergers & acquisitions
 - Joint ventures

1:00 p.m. Luncheon

This conference programme is designed to provide participants with a comprehensive assessment of technology and market development trends that will determine ink jet printing's role in the overall printing marketplace. The formal sessions and informal networking sessions provide a unique, interactive environment for leading hardware, consumables, components, system integrator and user company representatives to network and develop an improved understanding of current developments and other forces that are shaping ink jet printing's role in the evolving digital printing industry.

2:30 p.m. Session 2 EVOLUTION OF DESK-TOP AND GRAPHICS MARKETS

EUROPEAN END-USER MARKET RESEARCH AND ANALYSIS: WIDE & GRAND FORMAT GRAPHICS: PRINTERS, MEDIA AND INK
Stewart Partridge, Managing Director, Web Consulting Ltd., Abingdon, UK

- Sales history and forecasts: Wide & grand format ink jet printers, media and inks
- Continued emergence of new ink/printer technologies
- Overall market growth and cannibalisation
- Results and analysis from European end-user research
- How digital matches up to screen, photo and CAS technologies: 5 year forecast
- Conclusions and implications

INDUSTRIAL INK JET MARKETS - THE CHOICES FACING VENDORS

Mark Hanley, President, IT Strategies, Hanover, Massachusetts, USA

- Where in the Value Chain?
- What is achievable over 5 years in technology and revenue terms?
- Who should partner with whom?

DESK-TOP INK JET PRINthead TECHNOLOGY – STATE OF THE ART

Rob Beeson, R&D Competitive Intelligence Team Leader, Hewlett-Packard, Corvallis, Oregon, USA

- Comparison of ink jet printhead technologies
 - Brother
 - Canon
 - Fuji-Xerox
 - Hewlett-Packard
 - Lexmark
 - Ricoh
 - Seiko Epson
- Competing technologies for digital photography
 - Dye sublimation
 - Polaroid Opal
- Computer modelling ink jet design simulation

Why not register on-line?
<http://www.imieurope.com>

DIGITAL GARMENT PRINTING - OPPORTUNITIES & SOLUTIONS

Ofer Ben-Zur, CEO, Kornit Digital, Magshimim, Israel

- The finished garment printing market
- Segments within the garment printing market
- Advantages & disadvantages of digital printing over conventional screen-printing & transfer technologies
- Market needs and wants
- The design of a digital garment printer
- Digital ink for the garment printing market

THE NEED FOR SECURITY IN INK JET PRINTED DOCUMENTS

Gerry LaPorte, Forensic Scientist, US Secret Service, Washington, DC, USA

- Increasing use of ink jet for forgery
 - Counterfeiting
 - Ransom notes
 - Threatening letters
 - Contracts
 - Wills
- Forensic analysis techniques
- Need for forensic traceability
- New opportunities for security in ink jet printing

7:00 p.m. Reception

Thursday, October 21, 2004

9:00 a.m. Session 3 REVOLUTION OF INDUSTRIAL PRINTING

THE CHALLENGE OF INTEGRATION

Paul Morgavi, President & CEO, Impika, Aubagne, France

- Applications
- Resolutions and speeds
- Substrates and inks
- Print engine design
- System integration and parameters
- Next challenges for ink jet

FASTJET

Stefan Slembrouck, Product Director, Sun Chemical Europe, Ternat, Belgium

- Single pass digital print
 - Technology
 - Visions
 - Potentials
 - Deliverables
- A business solution for corrugated sheet printing: capital expenditure, maintenance cost, applications
- An enabler for new marketing dynamics: personalisation of packaging, brand protection, event promotion
- Marketing road map: from the demonstration of an innovative concept to the successful commercialisation of a reliable print technology

Catalonia Barcelona Plaza Hotel, Barcelona, Spain

POWER AND GLORY, THE FULL CONDUCTIVE INKJET STORY

Dr Alan Hudd, President & CTO, Xennia Technology Ltd, Royston, UK

- Conductive ink jet technology
 - Two years on
- How the technology works
 - Chemistry
 - Process
 - Technology options
 - IPR position
- Properties and performance
 - Electronic properties
 - Ink jet properties
 - Complementary techniques
- Products and Status
 - RFID
 - Rapid prototype design
 - Product decoration
 - Other applications
- Partnership programmes

COLOUR TECHNOLOGIES FOR INK JET DEVICES

Dirk De Baer, Senior Colour Scientist, Agfa Monotype, Mortsel, Belgium

- Special colour requirements of ink jet devices
- Digital photography
 - Extended colour gamuts push colour technology to new levels
 - Automatic colour correction
 - Required gamut for digital photography
 - Relationships with digital minilabs
- Commercial printing
 - High-quality colour standards
 - Specific colour problems & solutions
 - Multi-density inks
 - Non-standard primary colours
 - Six-colour pitfalls
 - Evolution of displays and impact on colour proofing

HOW TO USE INK JET INTEGRATORS

Clive Ayling, Consultant, The Technology Partnership plc, Melbourn, UK

- Why pay for third party integration support?
- What the integrator can do, what you must do
- Justifying the investment - building a business case
- Diverse examples of ink jet products developed for clients by TTP

1:00 p.m. Luncheon



COURTESY OF TURISME DE BARCELONA

2:30 p.m. Session 4

ADVANCES IN PRINTHEAD TECHNOLOGY

SHAPED PIEZO SILICON: THE NEXT GENERATION OF PRINTHEAD TECHNOLOGY FROM SPECTRA

James Gill, European Sales Director, Marc K. Torrey, Product Planning & Business Development Director, Spectra, Inc., Lebanon, NH, USA

- Today's digital graphics markets and printhead solutions
- Emerging trends in graphic applications
- M-Class: Spectra's next generation printhead family
- Shaped Piezo Silicon: Breakthrough technology using silicon MEMS
- The M-Class Jet Module: Core building block for new product family
- The M-Class printhead: A flexible platform for a broad range of applications
- Implications for the future

DEVELOPING INK JET MARKETS

David Frew, Group Marketing Manager, Xaar Ltd, Cambridge, UK

- Market demands
- Ink jet cross over
- Lowering the barriers
- OmniDot platform
 - OmniDot 380
 - OmniDot 760

INNOVATIVE PIEZO INK JET PRINTHEAD TECHNOLOGY

Dr Jaewoo Chung, Project Leader, MEMS Lab, Samsung Advanced Institute of Technology, Suwon, Korea

- New MEMS-based piezo ink jet printhead
- Manufacturing process for printhead
 - Fluidic channels and diaphragm prepared with micro-machined Si single crystals thick film
 - Piezo actuator formed on diaphragm by high temperature annealing, producing bonded structure in a flesh without any adhesive conductive layer
- Printhead performance and capability
 - High reliability
 - High firing frequency
 - High viscosity inks used
 - Easy customisation for new applications
- Applications with this technology

INDUSTRIAL IJ HEAD - APPLICABLE TO WIDE RANGE OF INKS

Dr Shinichi Nishi, General Manager Ink Jet Head R&D, Konica Minolta, Hachioji, Tokyo, Japan

- Experience of wide range of inks, including Solvent, UV-curable, oil
- Polymer containing, non-Newtonian etc.
- Optimisation of wave form
- Simulation with FLOW-3D
 - Pressure wave
 - Droplet formation
 - Heat distribution
- Collaboration with ink & printer integrators

SUPPLIERS FORUM

Five minute presentations related to technology, capabilities, services, new product introductions etc. The Suppliers Forum is open to all conference registrants.

7:00 p.m. Reception

Friday, October 22, 2004

9:00 a.m. Session 5

INK & MEDIA – WHAT'S NEW?

NEW DEVELOPMENTS IN UV INK JET INKS

Dr Carole Noutary, Technical Manager, Sericol Imaging, Broadstairs, UK

- Benefits and application of UV ink jet technology
- Technical limitations with UV ink jet today
 - Flexibility
 - Durability
- New flexible ink developments
 - What chemistry?
 - Benefits and drawbacks
 - Development status & results
- What's next for UV ink jet

INK JET PRINTING WITH NITROGEN INERTING – ALL HOT AIR?

Peter Walshe, Business Development Manager, SunJet, Bath, UK

- The pro's and con's of curing in air
 - Oxygen inhibition
- Benefits of inert atmosphere curing
 - Speed
 - Low odour
 - Lower UV power/dose requirement
- Application in high-speed printing
 - Imprinting
 - Corrugated liner printing
- Application in food packaging

BIO-INK FOR SECURITY APPLICATIONS

Prof Dr Norbert Hampp, Institut Fur Physikalische Chemie, Philipps-Universität Marburg, Germany

- Biomaterial comprising ink formulations
- Bacteriorhodopsin (BR) a biological photochrome
- Processing of BR-inks into security features for documents
- Properties of BR-inks (light fastness, cyclicity, photochromic shift ...)
- Combined features of photochromism, data storage and traceability
- Biomaterials - a useful material class for security applications?

MADE IN CHINA - THE FATAL ATTRACTION OF LOW PRICES

Andi Edan, Marketing Manager Europe, CGATE, London, UK

- Tool kit for trading with China
 - A perspective on the issues involved
- Why large format?
 - What makes China the right place and the right time
- Quality issues
 - Finding the right partners
- Good and bad products from China and why
- Products made to your own specification

1:00 p.m. Adjournment



COURTESY OF TURISME DE BARCELONA

Digital Printing Conferences 2004

Catalonia Barcelona Plaza Hotel,
Barcelona, Spain

REGISTRATION FEES

THE INK JET ACADEMY THEORY OF INK JET

- Attendance at all sessions
- Course reference binder
- One lunch
- One reception
- Coffee breaks

Registration fee € 1,095, £725

DIGITAL PERSPECTIVES SEMINARS 2004

- Seminar reference notes
- Lunch and/or reception
- Coffee breaks

Registration fee

Three seminars € 1,050, £ 700
Two seminars € 750, £ 500
One seminar € 400, £ 275

12th ANNUAL EUROPEAN INK JET PRINTING CONFERENCE

- Attendance at all sessions
- Conference reference binder & CD
- Two lunches
- Two receptions
- Coffee breaks

Registration fee € 1,095, £725

DISCOUNTS

Attend the Ink Jet Academy or 3 seminars and get a €100, £75 discount off the Ink Jet Conference fee. More than one registrant for the Ink Jet Academy, 3 seminars or the Ink Jet Conference from your company? Then we offer a €100, £75 discount. Note that each registrant is only entitled to one discount.

BOOKING POLICY

Cancellations will receive a 100% refund if made 72 hours prior to the start of the programme. Substitutions may be made at any time.

HOW TO REGISTER

- 1 Fill in the form below (copy it first if you wish to register more than one person)
- 2 Fax it to: Christine Reed at IMI Europe, Cambridge, UK - Fax: +44 1223 235901
- 3 We will check availability and fax back to you confirmation of your requirements and an invoice with details of how, when and where to pay. If you prefer, register on-line via our web site - www.imieurope.com

I wish to pay in the following currency: UK £ Euro €

**Hotel reservations and charges are the responsibility of each conference registrant - For details see page 2
Special rates are available up to September 24th 2004**

REGISTRATION FORM - please indicate course, seminars and conference as required

	Monday 18 October p.m.	Tuesday 19 October a.m.	Tuesday 19 October p.m.
INK JET ACADEMY €1,095, £ 725	<input type="checkbox"/> INK JET ACADEMY COURSE		
DIGITAL PERSPECTIVES 2004	<input type="checkbox"/> DIGITAL COMMERCIAL PRINTING	<input type="checkbox"/> PAPER COATINGS & MEDIA	<input type="checkbox"/> EMERGING CHINESE MARKETS
3 seminars €1,050, £ 700	<input type="checkbox"/> THERMAL PRINTING & IMAGING	<input type="checkbox"/> SECURITY PRINTING	<input type="checkbox"/> DIGITAL PHOTOGRAPHY
2 seminars € 750, £ 500			
1 seminar € 400, £ 275			
	Wednesday 20 October 11 a.m.	Friday 22 October 1:00 p.m.	
12th ANNUAL EUROPEAN INK JET PRINTING CONFERENCE € 1,095, £ 725	<input type="checkbox"/> 12 th ANNUAL EUROPEAN INK JET PRINTING CONFERENCE		

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