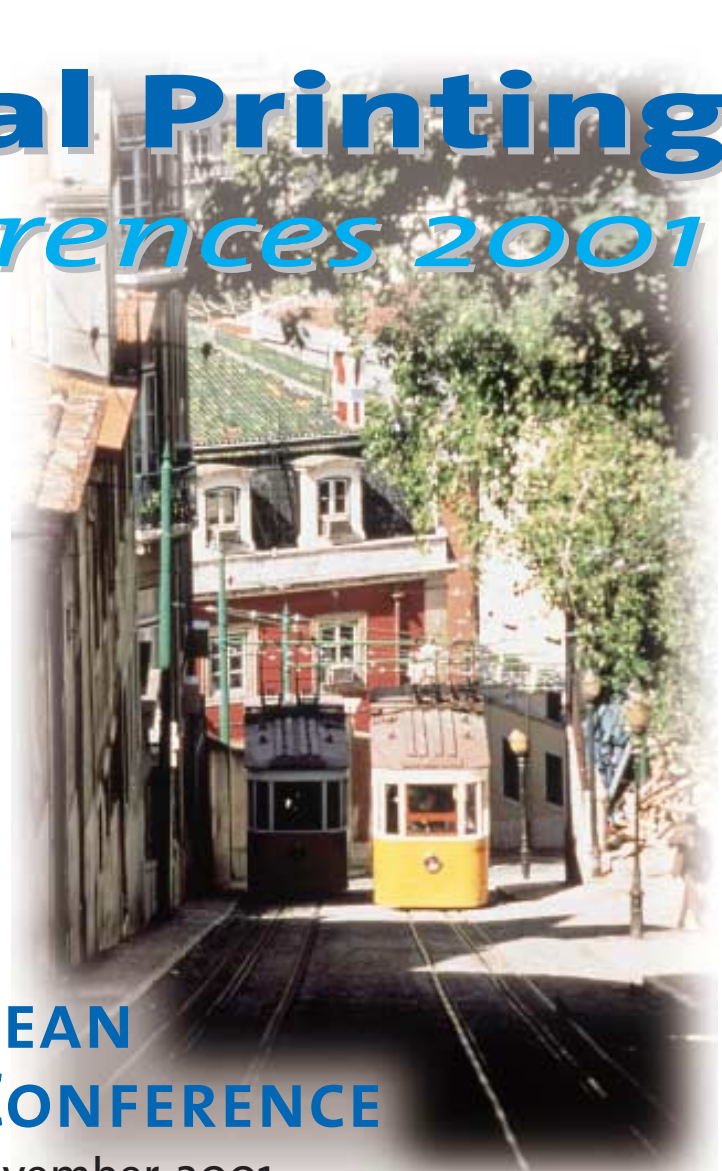




Digital Printing Conferences 2001



Tower of Belém, Lisboa, Courtesy of Turismo de Lisboa

Sheraton Lisboa
Hotel & Towers
Lisbon
Portugal

9th ANNUAL EUROPEAN INK JET PRINTING CONFERENCE

Monday 5th - Wednesday 7th November, 2001

Join us for the ONLY dedicated 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.

4th ANNUAL DIGITAL, INDUSTRIAL & DECORATIVE PRINTING CONFERENCE

Wednesday 7th - Friday 9th November, 2001

A full two days focussing on the latest in digital industrial production printing technology. Hear all about the new ink jet printing technologies and solutions for commercial printing, labelling, overprinting and direct decoration of a wide range of substrates.

Ink Jet Academy

Theory of Ink Jet Technology

Sunday 4th - Monday 5th November, 2001

A 1 1/2 day comprehensive course describing the latest advances in ink jet and ink technologies, led by Mike Willis of Pivotal Resources & Alan Hudd of Xennia Technology.



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 around 20 programmes covering ink jet, thermal, laser, high speed digital printing, textile, industrial and other forms of digital printing.

THE CONFERENCES

IMI Europe brings together two major conferences 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 Lisbon for our conference programmes. This one thousand year old city is the capital of Portugal. Built on seven hills and mirrored by the Tagus River, it was once the capital of a mighty empire that spanned five continents. There are reminders everywhere of its victories and defeats going back to the Roman times.

WELCOME TO DIGITAL PRINTING 2001

IMI Europe has once again put together an outstanding programme for Digital Printing 2001. Our 9th Annual European Ink Jet Printing Conference is packed with the latest overviews, updates and technology developments for office, industrial printing and media. This year the 4th Annual Digital, Industrial & Decorative Printing Conference focusses on the emerging industrial printing and decorative markets. And if you need to get up to speed with ink jet, join our very popular and successful course - the Ink Jet Academy.

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. In addition registrants are welcome to display company literature in our separate display area.

How could you miss it. See you in Lisbon!

Mike Willis, Managing Director, IMI Europe Ltd



Lisbon's Cathedral, Courtesy of Turismo de Lisboa

UPCOMING IMI US CONFERENCES

5th Annual Digital Printing of Textiles Conference October 15-17, 2001

Areas of emphasis include:

- Market & implementation issues
- Latest digital textile printing developments
- Users' experiences & needs
- What does the future hold?

1st Industrial Scale Digital Printing Conference October 17-19, 2001

Areas of emphasis Include:

- Digital printing's impact on screen, flexographic & offset printing
- Ink jet vs. electrophotography vs. thermal transfer
- Market implementation: replacement or expansion
- Digital printing's future role in printing industry

Location:
Savannah Riverfront Marriott
Savannah, Georgia, USA

For complete details and registration information visit IMI's web site <http://imi.maine.com> or call +1-207-235-2225 or email imi@somtel.com



Tower of Belém, Lisbon, Courtesy of Turismo de Lisboa

LOCATION

The Sheraton Hotel & Towers is centrally located in Lisbon, and is a ten minute taxi ride from Lisbon International airport.

The Sheraton Hotel & Towers features underground parking, a business and communications centre, a variety of shops, a health club with a heated outdoor pool, gym, sauna, steambath and massage. This hotel offers a unique opportunity to combine a relaxing weekend or vacation in Lisbon in conjunction with attendance at IMI Europe's conferences.

Lisbon offers plenty of bars, restaurants, sightseeing, monuments, museums and shopping. The city is relatively small and easy to get around. Just outside the hotel is a metro station, and also taxis are plentiful and low-cost.

Within easy reach of Lisbon are some of Europe's most beautiful beaches and golf courses, as well as horse riding centres, water sports, the glamorous resort of Estoril, the village of Sintra and the mountains of Arrábida.

For additional information on Lisbon, visit Turismo de Lisboa Web Site at:

<http://www.atl-turismolisboa.pt>

The Sheraton Hotel & Towers address is:

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Email: sheraton.lisboa@sheraton.com
Web Site <http://www.sheraton.com/lisboa>

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.

All registrants to IMI Europe's Digital Printing Conferences at the Sheraton Hotel & Towers, Lisbon, Portugal will receive a complimentary copy of the latest edition of the "WORLDWIDE PRINTER AND SUPPLIES MARKET REPORT."

HOTEL INFORMATION

The 9th Annual European Ink Jet Printing Conference, 4th Annual Digital, Industrial & Decorative Conference and the Ink Jet Academy are being held at the Sheraton Hotel & Towers, Lisbon, Portugal. Hotel reservations and charges are the responsibility of each conference registrant. The discounted hotel rate is Esc. 26,000\$00 (Euro 129.69) for single occupancy and Esc. 29,000\$00 (Euro 144.65) for double occupancy - buffet breakfast included. EARLY BOOKING IS ADVISED: The Sheraton Hotel & Towers will guarantee the reduced rate only until October 5, 2001. Requests after that date will be on a space available basis. To receive the special rate, you must identify yourself as a registrant to an IMI Europe Conference.

To make hotel reservations:

Phone +351 21 312 0000
Fax +351 21 357 5073

PRODUCT DEMONSTRATIONS

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. email imi@somtel.com, tel: +1 207 235 2225, or fax: +1 207 235 2226 to book space.



Eating out in Lisbon, Courtesy of Turismo de Lisboa

Ink Jet Academy

Theory of Ink Jet Technology

Sunday 4th - Monday 5th November, 2001

1.5 day course

Sheraton Lisboa Hotel & Towers,
Lisbon, Portugal



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 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.

SUNDAY 4 NOVEMBER 2001

8:00 a.m. - 9:00 a.m. Registration
9:00 a.m. Opening session

INTRODUCTION

- Why ink jet?
- Course overview
- Types of ink jet technology
- Brief history

DESK-TOP INK JET

- Drop on demand technologies
- Thermal & piezo ink jet
- State of the art
- Markets & applications

INDUSTRIAL INK JET

- Industrial drop on demand
- Continuous ink jet
- Applications
- Market development
- Printer OEMs

INK TECHNOLOGY

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

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

DOD PRINthead DESIGNS AND VENDORS

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

MATERIALS FOR INK JET INKS

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

DOD PRINthead DESIGN CONSIDERATIONS

- Drop ejection frequency
- Crosstalk
- Life
- Drive voltages
- Temperature control
- Drop placement accuracy
- Considerations for page arrays

6:30 p.m. Session closes
7:00 p.m. Reception

MONDAY 5 NOVEMBER 2001

8:30 a.m.

INSTRUMENTATION FOR INK JET DEVELOPMENT

- Reliability
- Jet characteristics
- Quality control

MEDIA

- Paper & coatings
- Drying mechanisms
- Light & waterfastness
- Non-paper media

PRINT QUALITY

- The 3 factors affecting print quality
- Fundamental parameters
- Technologies to improve print quality

SYSTEM DESIGN ISSUES

- Resolution & nozzle pitch
- Filling/bubble removal
- Improving image quality
- Photo printing techniques
- Housekeeping
- Ink supply and replacement

FUTURE DEVELOPMENTS

- Evolution of current technology
- New developments
- Status & developments of Ink Technology

1:00 p.m. Adjournment & Lunch

COURSE LEADERS

Mike Willis, Managing Director
Pivotal Resources Limited
Cambridge, England

Mr. Willis founded Pivotal Resources, a consultancy in the digital printing industry, in late 1995. He has experience in a wide range of technologies and markets including drop-on-demand and continuous ink jet printing, electrophotographic 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 Ltd., where Mr. Willis spent ten years working in a number of roles, culminating as Group Leader of Nonimpact Printing. Before that, he spent six years at Gestetner Ltd., developing photocopier processes.

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

Dr. Alan L Hudd, Managing Director
Xennia Technology Limited
Royston, Hertfordshire, England

In April 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.

Dr Kevin Hall, Business Support Manager
Xennia Technology Limited
Royston, Hertfordshire, England

Dr. Hall joined Xennia Technology Ltd in 1998 and is now their Business Support Manager, responsible for new business development and project support.

From 1996 Kevin was the Technical Manager of Imation's European Research Centre in the UK with responsibility for the development of new photographic media. Successes include technologies used in medical and colour photographic silver halide films known under the Trimax™ and Scotch™ film brands. He has also worked in the field of liquid toner electro photography. Kevin joined 3M in 1984, working as an emulsion scientist at the 3M UK research facility. His work in the areas of antistatic coatings, high contrast and contact emulsions led to the graphic arts products such as 3M Excelerate™ and DRC™, with the antistatic technology being used in a range of film products. He holds over 13 patents and has presented at a variety of conferences.

Dr. Hall graduated with a 1st class BA Honors degree in Chemistry and a D.Phil in Gold Chemistry from Oxford University, UK. He is a Fellow of the Royal Society of Chemistry.

9th ANNUAL EUROPEAN INK JET PRINTING CONFERENCE

Monday 5th - Wednesday 7th November, 2001

Sheraton Lisboa Hotel & Towers, Lisbon, Portugal

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 computer 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.

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, software, 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.

MONDAY, NOVEMBER 5, 2001

11:00 a.m. - 5:00 p.m. Conference Registration
2:30 p.m. Opening session

WELCOME AND INTRODUCTIONS

Alvin G. Keene, President, Information Management Institute, Inc., Kingfield, Maine, USA & Director, IMI Europe, Cambridge, England

INK JET STATE OF THE ART

DIGITAL PRINTING & COMPETITIVE TECHNOLOGIES

Dr. Ross N. Mills, President, imaging Technology international, Boulder, Colorado, USA

- Introduction to ink jet technology
 - Continuous ink jet
 - Impulse ink jet
- Competitive issues for ink jet
- The future for ink jet
- Conference overview

DIRECTIONS IN INK JET TECHNOLOGY

Michael Willis, Managing Director, Pivotal Resources, Cambridge, England

- Latest products & developments
- Emerging markets & technology
- New introductions
 - CeBIT & Pakex
- The patent scene
 - New piezo technologies
 - MEMS

THE EVOLUTION OF PRINTING & IMAGING

Dr. Evan Smouse, Director of Strategic Technology, Hewlett-Packard Imaging & Printing Systems, Corvallis, Oregon, USA

- Technology trends - mobility, connectivity, content, colour
- Workflow evolution - business processes, commercial, consumer
- Evolving model for printing & imaging - closed or open?
- Value delivery chains - after the eServices buzz is gone
- The next five years - challenges & opportunities

INK JET: MOVING UP AND OUT

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

- A large-scale future beyond the office
- The real limits and capabilities of drop-on-demand
- Continuous ink jet makes a return
- The fit of continuous ink jet and electrophotography
- The new market potential

THE INK JET SUPPLIES BUSINESS

Tom Ashley, Group Director, CAP Ventures, Norwell, Massachusetts, USA

- Inks, cartridges and chemistry
- Desktop and large format speciality media
- Emerging opportunities in ink jet supplies

7:00 p.m. Reception

TUESDAY, NOVEMBER 6, 2001

9:00 a.m. SESSION 2

PHOTOPRINTING - THE NEXT BIG MARKET?

TRENDS IN PHOTO PRINTING

Stephen Bambridge, Principal Analyst, Lyra Research Europe Ltd., England

- Market and technology overview
- Printing at home
- On-line photo services
- Walk-in retail

THE NEW DIGITAL PHOTO OPPORTUNITY

Armin Kuendig, Scientist, R&D ECO Technology, Gretag Imaging AG, Regensdorf, Switzerland

- Trends towards digital photography in consumer markets
- Photofinishing goes digital
- Digital printing technologies for photofinishing
- Image quality and colour management
- Ink jet photofinishing - challenges and opportunities
- Gretag's ink jet solutions

INK JET PHOTOFINISHING SYSTEMS

David Clark, Chief Technical Officer, Phogenix Imaging, San Diego, California, USA

- Opportunity for digital systems to expand the retail photofinishing markets
- Business and capability of ink jet technology to meet retail photofinishing requirements
- Key issues
 - Image quality
 - Print durability
 - Productivity
 - Format flexibility

INK JET PAPERS FOR PROFESSIONAL APPLICATIONS

Marc Van Bockstaele, R&D Manager Graphic Systems, Henri Kanora, Application Manager Inkjet Media & Systems, Agfa-Gevaert NV, Antwerp, Belgium

- Requirements for different applications
 - Proofing
 - WF - Poster printing
 - SOHO/Photo printing
- Media/Receiver technology
 - Importance of media for system performance (interaction with printhead, ink, software)
 - Ink jet receiver media technology
 - Paper/coated paper/alternatives
 - Receiving layers:
 - Polymer blend
 - Microporous/ceramic
 - Strengths/weakness/universality
- Recommendations for media/System choice for different applications
 - Dedicated versus universal
 - Compromises

NEXT GENERATION WIDE FORMAT PRINTERS AND CONSUMABLES

Dr Ken Stack, Director, Inkjet, Kodak Professional, Rochester, New York, USA

Dr. Gary W. Allen, Director, Inkjet Materials Platform, Eastman Kodak, Rochester, New York, USA

- Understanding the market requirements
- Market positioning for breakthrough products
- Key requirements for next generation products
 - Photo image quality
 - Productivity
 - Avoiding the tradeoff between speed and image quality
- Synergies between system components
 - Inks
 - Media
 - Systems optimisation

1:00 p.m. Luncheon

Lunches will be held in the rooftop restaurant of the Sheraton Hotel & Towers with a magnificent panoramic view across the city of Lisbon

PRINTING CONFERENCE

2 day conference

2:30 p.m.

Session 3

PRINthead TECHNOLOGY FOR NEW APPLICATIONS

FLEXIBILITY USING A CERAMIC PRINthead

Chuck Griggs, President, Ink Jet Technology, San Jose, California, USA

- Basic structure & manufacturing processes
- Printhead flexibility
- Ink requirements
- Applications
- Product status

INNOVATIONS IN MANUFACTURING TECHNOLOGY FOR LOW COST PIEZOELECTRIC INK JET PRINthead

Hue P. Le, President, PicoJet, Hillsboro, Oregon, USA

- Background to PicoJet
- Printhead materials and fabrication process technologies
- Key advances of PicoJet ink jet technology
- Current products & development status
- Industrial printing applications

A BUILDING BLOCK APPROACH TO PIEZO PRINtheadS

Marc Torrey, Sales & Technical Support Manager Europe, Spectra, Inc., Amsterdam, The Netherlands

- Evolving marketplace
- Design considerations
- Product concepts for a new generation of printheads
- The new generation printheads
- Application opportunities

NEW SERIES OF PIEZO INK JET PRINtheadS FOR JETTING A VARIETY OF INKS

Masao Tachibana, General Manager, Marketing Dept., SII Printek, Chiba, Japan

- Can piezo printheads jet any fluid?
- If not, what makes ink jet inks and other fluids different?
- Aqueous inks and non-polar fluids
- Shared wall structure or channel isolation
- After the jetting - when drops land on the media

UV PRINTING IN THE INDUSTRIAL SECTOR

John Tatum, Ink Manager, Xaar plc, Cambridge, England

- The shift from traditional screenprinting to digital ink jet printing
- The flexibility that piezo DOD printheads bring
- UV ink properties
- The importance of matching inks to printheads
- The benefits of UV printing
- Applications using UV printing technology

7:00 p.m.

Reception



Lisbon's waterfront, Courtesy of Turismo de Lisboa

WEDNESDAY, NOVEMBER 7, 2001

9:00 a.m.

Session 4

INK JET INKS: THE KEY TO EXPANDING APPLICATIONS

THE ROLE OF EXPANDING INK TECHNOLOGY IN EMERGING INK JET APPLICATIONS

Peter Walshe, Business Development Manager, Sunjet, Bath, England

- Existing ink technology
- UV curing - evolving ink systems
 - 100% UV
 - UV paste
 - Water-based UV
- Aqueous inks
 - Textiles: dye versus pigments
 - Curing emulsions
- New developments & trends

SURFACE MODIFICATION OF PIGMENT PARTICLES FOR INK JET APPLICATIONS

Jason Hosmer, Technical Sales Manager, Cabot Corporation, Billerica, Massachusetts, USA

- Technology overview
- Overview of current commercial products
- Novel surface chemistries
- Applicability for current & emerging applications
- Surface modifications of pigments
- The role of pigments in future ink jet markets

THE ROLE OF POLYMERS IN INK JET INKS AND COATINGS

Dr Fred Hutter, Senior Research Chemist, Westvaco Corporation, Charleston, South Carolina, USA

- Polymers in inks
- Pigment dispersant to provide stability
- Contributions to waterfastness, rub and marker resistance
- Polymers in ink receptive coatings
- Water absorptivity for drying
- Dye fixing for sharpness & image permanence
- Impacts substrate & print gloss
- Polymer chemistry & mechanisms of their action
- Balancing coating cost & runnability desired properties

INK JET PRINTING THE PERIODIC TABLE

Dr Alan Hudd, Managing Director, Xennia Technology Ltd, Royston, England

- Incorporating difficult materials into reliable ink jet solutions
- From sand to pure gold
- Inorganic pigments and transition metals
- Luminescent materials
- Customised industrial printing solutions
- Using ink jet to manufacture devices and products
- Novel methods of applying bright vibrant colours onto dark textile fabrics

NOVEL INK JET INKS BASED ON MICROEMULSIONS AND NANOPARTICLES

Prof. Shlomo Magdassi, Casali Institute of Applied Chemistry, The Hebrew University of Jerusalem, Israel

- Basic formulation considerations in ink jet inks
- Formation and stabilisation of metal nanoparticles
- Formulation and printing of ink jet inks containing metal nanoparticles
- Microemulsions: Preparation and compositions
- Ink jet inks based on microemulsions: concept, formulations and printing
- Unique ink jet ink applications

1:00 p.m.

Luncheon and Adjournment

CONFERENCE CO-CHAIRMEN

Dr. Ross N. Mills, iTi

Mike Willis, PIVOTAL RESOURCES

CONFERENCE SPEAKERS

AGFA-GEVAERT, Marc Van Bockstaele & Henri Kanora
CABOT INC., Jason Hosmer
CAP VENTURES, Tom Ashley
EASTMAN KODAK, Dr Gary Allen & Dr Ken Stack
GRETAG IMAGING, Armin Kuendig
HEBREW UNIVERSITY, JERUSALEM, Dr Shlomo Magdassi
HEWLETT-PACKARD, Dr Evan Smouse
INK JET TECHNOLOGY, Chuck Griggs
IT STRATEGIES, Mark Hanley
LYRA RESEARCH, Stephen Bambridge
PHOGENIX IMAGING, Dave Clark
PICOJET INC., Hue Le
SII PRINTEK, Masao Tachibana
SPECTRA, Marc Torrey
SUNJET, Peter Walshe
WESTVACO, Dr Fred Hutter
XAAR, John Tatum
XENNIA TECHNOLOGY, Dr Alan Hudd

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

4th ANNUAL DIGITAL, INDUSTRIAL & DECORATIVE PRINTING CONFERENCE

Wednesday 7th - Friday 9th November, 2001

Sheraton Lisboa Hotel & Towers, Lisbon, Portugal

CONFERENCE FOCUS

DRUPA 2000 marked the point at which it was clear that digital printing had truly come of age. Existing players and newcomers showed digital presses capable of outstanding output over a wide range of throughput. In addition we saw the birth of a new industry - digital decoration of materials using ink jet technology.

In Lisbon we are focussing on these new markets and applications for digital printing, particularly ink jet and the vendors who are making this happen. As we enter the 21st century the old ways of printing and manufacturing are being challenged. New technologies are enabling new ways of doing business and cannot be ignored.

WEDNESDAY, NOVEMBER 7, 2001

11.00 a.m. - 5.00 p.m. Registration

2:30 p.m. Session 1

DIGITAL PRINTING'S EXPANSION TO TRADITIONAL AND NEW APPLICATIONS

WELCOME & INTRODUCTION

Debbie Thorp, Chairman

DIGITAL PRINT ENTERS TRADITIONAL MARKETS

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

- Status of digital printing
- Industrial applications - why now?
- Enabling technologies
- Emerging digital printing products

DIGITAL PRINTING IN EMERGING LARGE-SCALE PRODUCTION MARKETS

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

- Place of ink jet & electrophotography
- Electrophotography limitations
- Ink jet limitations and ways of accommodating them
- Potential market dimensions 5 years out

CONFERENCE CHAIRMAN

Debbie Thorp

CONFERENCE SPEAKERS

CAMBRIDGE DISPLAY TECHNOLOGY, Dr Karl Heeks
CEEMA TECHNOLOGY, Dave Ward
DUPONT INK JET, John Kane
IT STRATEGIES, Mark Hanley
INCA DIGITAL PRINTERS, Dr Will Eve
IST METZ, Joachim Hildebrandt
LEGGETT & PLATT DIGITAL, Richard Codos
MARK ANDY INC., Ken Daming
METRONIC, Thorsten Schnatz & Peter Schmitt
NESCHEN, Marc Nitsche
OMNOVA, Sunita Chavan
PHILIPS ELECTRONICS, Peter Legierse
PIVOTAL RESOURCES, Mike Willis
PROCTER & GAMBLE, Wil Schoenmakers
SERICOL IMAGING, Paul Yandell
VISIONJET, Paul Sinclair
VISUAL INFORMATION GROUP, David Williamson
VUTEK, Jane Cedrone
WEB CONSULTING, Stewart Partridge

MARKET DYNAMICS & TECHNOLOGY NEEDS AS DIGITAL PRINTING ADDRESSES INDUSTRIAL APPLICATIONS

Stewart Partridge, Managing Director, Web Consulting Limited, Wantage, England

- The influence of inherited market/supply structures
- When photorealism compromises cost & functionality
- Market kinetics versus market dynamics
- Brief on selected markets & applications
 - Glass & ceramics
 - Automotive
 - Textiles
 - Packaging
 - POP
- Avoiding "cloud cuckoo" forecasting
- Targeting sustainable business models & product concepts
- The role of alliances & associations

DIGITAL PRINTING IN FMCG MARKETS - REQUIREMENTS FOR SUCCESS

Wil Schoenmakers, Section Head, Procter & Gamble Technical Centres Limited, Egham, England

- An overview of the short term and longer term opportunities in the FMCG market
- Is there a superior technology or should we wait?
- Commercial and technical challenges today
- Examples of what the industry has done so far
- How to move forward faster and what help can the ink jet industry provide

THE FUTURE OF OUTDOOR SIGNAGE

David Williamson, President, Visual Information Group, Cincinnati, Ohio, USA

- Market sizing and growth trends
- Drivers behind increased volume
- Colliding technologies: Can ink jet win this contest
- Update on durability standards
- Five key developments in the outdoor market

7:00 p.m. Reception

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

Questions? Then email us at
enquiries@imieurope.com

THURSDAY, NOVEMBER 8, 2001

9:00 a.m. Session 2

DIGITAL PRINTING & EMERGING MARKETS

APPLICATIONS & TRENDS IN THE WORLDWIDE SUPER-WIDE DIGITAL PRINTING MARKET

Jane Cedrone, Marketing Manager, VUTEK, Meredith, New Hampshire, USA

- Product developments & impact on the market
- Screen printers & adoption of digital technology
- Photo labs & the latest photo-real output
- Maturing markets
- Diversification
- Flat bed & future developments

THE INS AND OUTS OF A UV FLATBED INK JET PRINTER

Paul Yandell, Business Development Manager, Sericol Imaging, Broadstairs, England

- Challenges
- Experiences with the Inca Eagle 44
- Why UV curing?
- Applications and opportunities

THE VERSATILITY OF THE HYBRID FLAT BED PRINTER - APPLICATIONS & MARKETS

Richard Codos, President, Leggett & Platt Digital Technologies, Somerset, New Jersey, USA

- Technology evolution of flat bed printers
- Technology evolution of digital textile printers
- Manufacturing flexibility inherent in hybrid printers
- New potential for digitally printed rigid substrates
- Flat bed's place in the manufacturing stream
- A Leggett & Platt internal case study

DIGITAL TEXTILE PRINTING - TARGET MARKETS FOR PRODUCTION PRINTING

John P Kane, Product Manager - Textile, DuPont Ink Jet, Wilmington, Delaware, USA

- Global textile printing market
- Value drivers of digital textile printing
- Target markets
- Textile technology challenges
- System integration needs & solutions
- Future of textile printing - Evolution or revolution?

MEDIA TRENDS IN THE SUPERWIDE PRINT MARKET

Marc Nitsche, Business Unit Manager Graphics & Images, Neschen, Bückeberg, Germany

- Textiles
 - Coated or uncoated fabrics
 - Fire retardancy
 - Applications
- Self adhesive vinyls
 - New generation of vinyls
 - Coating for solvent inks?

1:00 p.m. Luncheon

2 day conference

2:30 p.m.

Session 2 continued

FULL COLOUR LIGHT EMITTING POLYMER DISPLAYS BY INK JET PRINTING

**Dr Karl Heeks, Director of System Engineering
Business Unit, Cambridge Display Technology
Limited, Cambridge, England**

- Introduction to LEP technology
- Requirements for full colour displays
- Ink jet printing for colour displays
 - Jetability
 - Substrate surface modification
 - Control of solvent drying
- Issues for integration of ink jet printers into the production environment
- Alternative patterning techniques

REQUIREMENTS OF PRINTING WALL-COVERINGS DIGITALLY

**Sunita Chavan, Market Development Manager:
Digital Systems, OMNOVA Solutions Inc.,
Fairlawn, Ohio, USA**

- Wallcovering: Residential, commercial
 - Digital printing applications in wall covering
 - Sampling
- Short-run production
- Sampling: Digital benefits & issues

AN INTEGRATED DIGITAL PRINTING & FINISHING SOLUTION FOR THE LABEL MARKET

**Ken Daming, Director-Product Management, Mark
Andy, Inc., Chesterfield, Missouri, USA**

- UV curable ink jet technology
- Simple operation & maintenance
- In-line finishing equipment
- Complete short run, in-line label production

TRENDS AND APPLICATIONS OF INK JET PRINTING IN THE ELECTRONICS INDUSTRY

**Peter E. J. Legierse, Senior Scientist, Philips
Electronics Nederland B.V. Centre for Industrial
Technology, Eindhoven, The Netherlands**

- Applications of ink jet printing
 - Labelling & coding
 - Decoration
 - Functional layers
- Trends
 - Continuous versus impulse printing
 - Mass customisation
 - Environment
- European subsidised projects
 - Decoration
 - Functional layers
 - Heat resistant
- Requirements and testing

SUPPLIERS FORUM

5 minute presentations related to new product or service capabilities and introductions
- open to all conference registrants

7:00 p.m.

Reception



FRIDAY, NOVEMBER 9, 2001

9:00 a.m.

Session 3

PRODUCT DEVELOPMENT AND SYSTEM INTEGRATION

INTEGRATING INK JET PRINT ENGINES FOR INDUSTRIAL APPLICATIONS

**Dr Will Eve, Director of Technology, Inca Digital
Printers Limited, Cambridge, England**

- What is different about industrial printing?
- Requirements for industrial printing
- Ink jet & ink system necessities
- Data path – electronics and software
- Mechanical mounting
- Print modes
- Making it all work!

INK JET UV TECHNOLOGY

**Joachim Hildebrandt, Sales Manager, IST Metz
GmbH, Nürtingen, Germany**

- Ink jet UV technology
- Cooling cylinder technique
- Air-cooled high power units (MBS)
- Water-cooled high power units (HLK)
- UV technology for an oxygen-reduced operation
- UV power control (step switching or stepless control of lamp output)
- UV technology for heat sensitive materials

INTEGRATION – ENABLING DIGITAL PRINTING TECHNOLOGIES IN INDUSTRIAL APPLICATIONS

**Dipl.-Kfm. Thorsten Schnatz, Sales Director Digital
Printing and Dipl.-Phys. Peter Schmitt, Develop-
ment Director, Metronic AG, Veitshöchheim,
Germany**

- Introducing Metronic AG, system supplier and integrator
 - Historical background, product range, perspectives
- Printing and coding – different approaches in integration
- The need for integration
- Integration – a challenge for system suppliers
- Hybrid technologies
- Logistics – a neglected challenge

BEYOND THE TECHNOLOGY: MAKING IT WORK IN THE REAL WORLD

**Dave Ward, Technical Director, Ceema Technology,
Biggleswade, England**

- Engineering industrial strength applications
 - Precision movement and positioning
 - Dynamic ink supply
 - Maintenance systems
 - Reliability issues
 - In-line demands
- Application specific issues
 - Label printing
 - Part marking
 - Printing on plastic
 - Non-ink fluids

GETTING THE MEASURE OF INK JET

**Paul Sinclair, Managing Director, VisionJet,
Royston, England**

- The smaller the drop the more complex the process
- Optimising the chemistry and the drive waveform
- Drop wars - Speed vs velocity vs reliability
- Image quality - who's responsibility is it?
- What is the impact of your drop?

1:00 p.m.

Luncheon & Adjournment





Digital Printing Conferences 2001

REGISTRATION FEES

THE INK JET ACADEMY THEORY OF INK JET

- Attendance at all sessions
- Course reference binder
- Two lunches
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