Information Management Institute

Ink Jet Technology Suppliers Showcase 2008

Formerly the Ink Jet Developers Conference

Meet new and existing industry suppliers who can help you develop or explore ink jet as part of a product or manufacturing process

Where industry suppliers meet their customers - now in its 7th year!

Ron Ruhoff For Denver Metro Convention & Visitors Bureau

Renaissance Denver Hotel

Denver Colorado USA

April 16 - 18, 2008

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

INDUSTRY OVERVIEWS

Hear the following keynote speakers discuss how new applications and markets are offering exciting new opportunities for ink jet technology:

Marlene Bourne, Bourne Research
Charlie Brewer, Lyra Resarch
Mark Hanley, I. T. Strategies
Jérôme Mouly, Yole Développement

SUPPLIER PRESENTATIONS

Hear the leading suppliers of hardware, inks, curing systems, and other components & services to the ink jet industry present their company's products and services. Each supplier will give a 20 minute presentation on their company and products. Think how much you can learn without traveling the world to meet with them all!

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 or remake old contacts, catch up on the latest developments and products, discuss your application and seek advice. Or contact the suppliers beforehand and schedule a private meeting - full contact details for all suppliers are in this brochure.

Immediately prior to Ink Jet Technology Suppliers Showcase 2008
IMI will feature the following events:

April 14-15, 2008

INK JET ACADEMY: Theory of Ink Jet Technology

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

INK JET AS A MANUFACTURING PROCESS

A 1 1/2 day symposium covering the use of ink jet for manufacturing electronics, displays, biotechnology applications and 3D modelling

Featured Suppliers

Amica Software	iTi
Collins Ink	ixPressia
DuPont	KonicaMinolta
ESI	Microfluidics
EXFO	Nordson
Fujifilm Dimatix	Phoseon
Fujifilm Sericol	Pivotal Resources
Fusion UV	QEA
Global Inkjet Systems	Ricoh
Honle UV America	SunJet
ImageXpert	Trident Industrial Inkjet
Impika	TTP
Inkjet & Hi-tech Innov. Inst.	Xaar
Integration Technology	Xennia

IMI Inc.

IMI runs the largest and most comprehensive conference and seminar program in the digital printing industry. Each year over 2,000 industry technical & management personnel from over 600 companies attend over 20 programs covering ink jet, thermal, laser, high speed digital, industrial and other forms of digital printing.

The Conferences

IMI brings its very popular Technology Suppliers Showcase together with the acclaimed course - The Ink Jet Academy - and the Ink Jet as a Manufacturing Process Symposium. Held annually in the US or Europe, the Ink Jet Technology Suppliers Showcase is designed as a commercial event to showcase ink jet technology suppliers latest developments and products.

The location

This spring we have chosen Denver for our event. Denver is a vibrant city with 300 days of annual sunshine, year-round adventure and the breathtaking Rocky Mountains. It has a thriving arts and culture scene, world class attractions and endless shopping possibilities, exciting nightlife and abundant outdoor recreation.

Information Management Institute

Ink Jet 2008 Technology Suppliers Showcase

INTRODUCTION

IMI's Ink Jet Technology Suppliers Showcase is a proven program 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 base ink jet printing technology providers - printheads, inks, curing systems, materials, instrumentation, etc.

The Ink Jet Technology Suppliers Showcase 2008 will provide:

- **Industry overviews** by acknowledged experts
- **Exhibits** by key ink jet printing technology suppliers
- **Technology supplier presentations** highlighting their technology's capabilities, applications & advantages
- **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.
- **Complete contact information** for technology supplier companies
- **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. If you have considered visiting just the major ink jet printhead companies you know that you can easily spend man-weeks of time accomplishing such an information gathering process.

Participation in IMI's Ink Jet Technology Suppliers Showcase 2008 could well be the most productive three days ever in your efforts to utilize ink jet printing technology in your company's future. **Register now!**

IMI's Ink Jet Technology Suppliers Showcase 2008 is being held at the Denver Renaissance Hotel. Hotel reservations are the responsibility of each program participant. Early booking is advised as the group rate of $139 for single or double occupancy is guaranteed only until March 24, 2008.

You can make your hotel reservations online - go to hotel website www.renaissancedenver.com and:
1. Select your desired arrival and departure dates
2. Fill in IMIIMIA in the "Group Code" field and then click on "Find" and you can complete the reservation process.

You can also phone 800 228-9290 (Marriott Central Reservations) or +1 303 399-7500 (Hotel direct), ask for reservations and request Group Code "IMIIMIA" to make hotel reservations.

The Renaissance Denver Hotel is conveniently located midway between Denver International Airport and Downtown Denver. Centered in the Stapleton redevelopment area, the largest urban redevelopment project in the world, the Hotel is in close proximity to many attractions. The hotel provides complimentary shuttle service to and from Denver International Airport as well as local area restaurants & shopping plus complimentary parking.

The crown jewels of the Stapleton Redevelopment Area are the new Shops at Northfields and Dick's Sporting Goods Park (DSG Park), the largest outdoor soccer facility in the U.S. and home of Major League Soccer's Colorado Rapids. As a proud sponsor of DSG Park, the Renaissance Denver is the official home of the Rapids and is located within minutes from the fields.

Complimentary high-speed internet access is available in all guest rooms and the new luxurious Renaissance Bedding Package will ensure all travelers a comfortable nights rest. The Copper Canyon Grill and Lounge provide a casual, contemporary Colorado atmosphere and cuisine prepared by the Award Winning Chef.

Renaissance Denver Hotel
3801 Quebec Street
Denver, Colorado 80207 USA
Phone: +1 303-399-7500
Fax: +1 303-321-1966

Denver is a vibrant city with 300 days of annual sunshine, year-round adventure and the breathtaking Rocky Mountains in the backyard. From a thriving arts and culture scene, world class attractions and endless shopping possibilities, to nationally recognized chefs, exciting nightlife and abundant outdoor recreation, Denver welcomes you to experience, explore and discover how the Mile High City will awaken your senses like nowhere else.

For additional information on Denver and Colorado, visit the Denver Tourism web site **www.denver.org** and Colorado Department of Tourism web site **www.colorado.com**

Week at a glance

	8 am	9 am	10 am	11 am	12 noon	1 pm	2 pm	3 pm	4 pm	5 pm	6 pm	7 pm
Monday April 14					Registration	Ink Jet Academy Course Ink Jet as Manf. Process Symposium					Reception	
Tuesday April 15	Continental Breakfast	Ink Jet Academy Course Ink Jet Manf. Proc. Symposium			Lunch	Ink Jet Academy Course Ink Jet as Manf. Process Symposium						
Wednesday April 16				Registration		Ink Jet Technology Suppliers Showcase Optional Open House & Brunch at iTi, Boulder, Colorado - book at www.iticorp.com	Keynote Mark Hanley Supplier Presentations Integration UV, Trident, ImageXpert, Fusion UV, Ricoh, Xaar Technology Supplier Exhibits				Reception	
Thursday April 17	Continental Breakfast	Ink Jet Technology Suppliers Showcase Keynote Jérôme Mouly Supplier Presentations Phoseon, DuPont, Xennia, EXFO, Konica Minolta, iTi, ESI Technology Supplier Exhibits			Lunch		Keynote Marlene Bourne Supplier Presentations Fujifilm Sericol, Impika, Fujifilm Dimatix, Global InkJet, Amica, SunJet, Nordson				Reception	
Friday April 18	Continental Breakfast	Ink Jet Technology Suppliers Showcase Keynote Charlie Brewer Supplier Presentations Microfluidics, QEA, Pivotal Resources, Collins Ink, TTP, ixPressia, Inkjet & Hi-tech Innov. Inst. Technology Supplier Exhibits										

Ink Jet Academy
Theory of Ink Jet Technology

Monday 14 - Tuesday 15 April, 2008

Renaissance Denver Hotel, Denver, Colorado, USA

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, CEO
Xennia Technology Limited
Letchworth, 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.

THE THEORY OF INK JET TECHNOLOGY

The Ink Jet Academy provides a program 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 April 14, 2008

12:00 Noon Registration
1:00 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 INK JET PRINTING
- 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, continuous & thermal)
- Properties influencing ink jet performance
- Typical performance issues
- Diagnosing typical ink problems
- Ink types (solvent, aqueous & UV cure)
- Testing an ink for reliability: methods & characterization

5:30 p.m. Reception

Tuesday April 15, 2008

7:30 a.m. Continental breakfast
8:30 a.m. Session 2

DOD PRINTHEAD DESIGNS AND VENDORS
- Thermal ink jet
- Piezo ink jet
- Moving wall technology

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

12:00 Noon Lunch
1:00 p.m. Session 3

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 & 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

IMI 2008 CONFERENCE PROGRAMS

19th Annual Thermal Printing Conference
May 19-21, 2008
2nd RFID Technology Integration Symposium
May 21-22, 2008
Arizona Golf Resort Hotel & Conference Center
Mesa, Arizona, USA

Ink Jet Academy: Practice of Ink Jet Technology
June 16-19, 2008
Letchworth, Hertfordshire, UK

Ink Jet Academy: Theory of Ink Jet Technology & Ink Jet Components, Consumables, Equipment India 2008
June 26-28, 2008
PHD House, New Delhi, India

Digital Printing Summer School 2008
July 7- 11, 2008
Specific courses to be announced
Location to be announced, Europe

Digital Printing Summer Camp 2008
July 28-August 1, 2008
Specific courses to be announced
Sugarloaf Hotel
Carrabassett Valley, Maine, USA

Ink Jet Academy: Theory of Ink Jet Technology
November 10-11, 2008
UV Ink Jet Course
November 10-11, 2008
16th Annual European Ink Jet Printing Conference
November 12-14, 2008
Sheraton Hotel & Spa
Lisbon, Portugal

5th Annual Security Printing Conference
November 17-19, 2008
Tremont Plaza Hotel
Baltimore, Maryland, USA

Ink Jet Academy: Practice of Ink Jet Technology
November 17-20, 2008
Letchworth, Hertfordshire, UK

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

WORLDWIDE PRINTER AND SUPPLIES MARKET REPORT

Information Management Institute, Inc. is pleased to announce that it has commissioned I T Strategies of Hanover, Massachusetts to prepare a study report entitled "Worldwide Printer and Supplies Market Report" for distribution to all registrants to IMI's programs.

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's events at the Renaissance Denver Hotel, Denver, Colorado will receive a complimentary copy of the latest edition of the "Worldwide Printer and Supplies Market Report."

Ink Jet as a Manufacturing Process Symposium

Monday 14 - Tuesday 15 April, 2008

Renaissance Denver Hotel, Denver, Colorado, USA

SYMPOSIUM FOCUS

Ink jet is being considered for a wide range of manufacturing applications within the electronics, bio-medical, automotive, product decoration industries, and more. Compared to current manufacturing processes such as injection moulding, casting, plating, coating, photolithography and etching or printing processes such as offset, screen and pad printing, ink jet promises significant improvements in production flexibility, the ability to integrate outsourced processes directly into manufacturing lines, dispense a wide range of decorative or functional materials, work directly on components or parts or on much cheaper substrates than possible with current technologies.

This symposium will focus on ink jet as a manufacturing process. A wide range of experts will describe the processes and products they are commercializing, from a fundamental component level through to final products. They will describe how ink jet has the potential to offer substantial financial benefits to manufacturers or enables new levels of product performance to be reached.

BENEFITS OF SYMPOSIUM ATTENDANCE

- Explore the key issues important to your understanding of ink jet as a manufacturing process with your counterparts from all sectors of relevant industries
- Establish personal contacts with leading technologists, managers and innovators in the ink jet applications field
- Learn from interactive sessions and informal discussions of technology trends, applications developments and other aspects of ink jet as a manufacturing process
- Obtain critical insights into technological, application and market developments critical to your company's decision making process relative to ink jet and its role in manufacturing

In addition the Ink Jet as a Manufacturing Process Symposium is co-located and immediately precedes the Ink Jet Technology Suppliers Showcase 2008, giving delegates the opportunity to conveniently register and attend the successive events.

Monday April 14, 2008

12:00 Noon Registration

1:00 p.m.
WELCOME & INTRODUCTIONS
Alvin G. Keene, President, Information Management Institute, Inc., Carrabassett Valley, Maine, USA

TRANSITION FROM PRINTING TO MANUFACTURING

INK JET AS A MANUFACTURING PROCESS: OPPORTUNITIES AND CHALLENGES
Dr. Ross N. Mills, Chairman & Chief Technology Officer, imaging Technology international, Boulder, Colorado, USA

- Ink Jet Print Heads for Manufacturing
- Ink Jet for Manufacturing
- Choosing Ink Jet
  - Defining the Process
  - Selecting Components
  - Implementing the Design
- What is Ink Jet Integration?
- Development Tools
- Production Systems
- Where is Ink Jet Going?

INK JET'S ROLE AS A MANUFACTURING TOOL
John Lapp, Sales Manager, North & South America, Fujifilm Dimatix, Lebanon, New Hampshire, USA

- Ink Jet is Increasingly being Adopted as Industrial Fabrication Method for Patterning & Depositing Exotic Materials
- Review of Ink Jet Technologies for Use in Industrial Applications
- Criteria from Economic Considerations to Process Practicality is Reviewed
- Commercial Examples are Sighted
  - High End Electronics Device Fabrication
  - Digital Coatings
  - Commercial Food & Product Decoration

FROM CONCEPT TO INDUSTRIAL INK JET PRODUCTION
Dr. Alan L Hudd, CEO, Xennia Technology Limited, Letchworth, Hertfordshire, UK

- The Industrial Ink Jet Proposition
- Removing Barriers for Commercial Adoption
- Requirements for Industrial Ink Jet Inks & Other Fluids
- Platforms for Reliable Production Printing
  - Continuous Textile Web Printing
  - Fixed Array Ceramic Tile Printing
- Outlook for Materials Deposition, Product Decoration & Manufacturing Processes

PAPER-BASED SUBSTRATES FOR DIGITAL FABRICATION INK JET PRINTING
Dr. Wolfgang Schmidt, R & D, Felix Schoeller Imaging, Osnabrueck, Germany

- Analysis & Comparison of Different Requirements for Digital Fabrication Printing vs. Image Printing
  - Mechanical & Chemical Properties
  - Surface Topography
  - Porosity
  - Ink Penetration
- How Paper Coating (Especially Extrusion Coating) can be Applied to Meet Basic Demands for Digital Fabrication Substrates
- Technologies for Customizing the Substrates & their Capabilities
- First Application Study in Field of Organic Electronics

EXPANDING INK JET TO NEW PRODUCTS IN EXISTING MARKETS
Dr. James Caruso, Vice President & Chuck Edwards, President, Tred Displays, Albuquerque, New Mexico, USA

- Cost Analysis of Today's Ink Jet Product Mix
- Where does Ink Jet Go From Here
- Leverage Ink Jet's Advantages to new Materials & Substrates
- The Advent of new Higher-Margin Ink Jet Products

5:30 p.m. Reception

Tuesday April 15, 2008

7:30 a.m. Continental Breakfast

8:30 a.m.

WHAT'S HAPPENING? - THE REAL WORLD OF APPLICATIONS

APPLICATIONS & CHALLENGES OF PRINTED INTELLIGENCE
Jali Heilmann, Senior Research Scientist, VTT Information Technology's Media Department, Espoo, Finland

- Research of Printed Intelligence
- Ink Jet Systems for R&D
- Functional Ink Jet Printing Materials
- Challenges of Ink Jet to meet Manufacturing Application Requirements
- Emerging Applications of Printed Intelligence

INK JET'S ROLE IN PRINTED ELECTRONICS
Dr. Steve Jones, Business Development Director, Printed Electronics Ltd., Cambridge, UK

- Electronics is all about Manufacturing a Functional Unit that is Cost Effective & Reliable
- Ink Jet Offers Exciting Opportunities to Develop Tool-Less Manufacturing but does not yet have Robust Materials & Processes of Traditional Electronics Manufacturing
- Ink Jet Process Components: Platform, Ink Jet Head, Ink & Substrate
- Ink is most Problematic as it Interacts with the Head & Substrate but has to Carry the Electronic Attribute
- Theoretical & Practical Aspects of Getting Functional Inks through Printheads & Make them Behave when they land on Substrate

INK JET IN SOLAR MANUFACTURING
Thomas Florian, Manufacturing Engineer, CSG Solar AG, Thalheim, Germany

- Ink Jet in Photovoltaic Manufacturing
- Ink Jet Process Concepts
- Requirements for Photovoltaic Production
- Useful Tool Features

USE OF DIRECT WRITE METHODS IN PHOTOVOLTAICS
Dr. Maikel van Hest, Senior Scientist, National Renewable Energy Laboratory, Golden, Colorado, USA

- Direct Write Methods could help Photovoltaics become Cost Competitive
- Main Photovoltaic Direct Write Fields: Contacts & Absorber Materials
- Ink Jet Printing of Contacts: Development of Metal Organic Decomposition and Nanoparticulate Inks for Silver, Nickel, Copper & Aluminum with Conductivities close to Bulk Material
- Ink Jet Printing of Absorber Layers
  - Liquid Based Precursors Developed, Printed & Processed under Atmospheric Conditions
  - Precursors Identified to Produce CIGS Films without the use of Selenization
  - Solution Precursors Developed to Produce Solar Cell Grade Thin Film CdTe
- Organic Photovoltaics: Ink Jet used to Deposit Contacts and Photoactive Layer

12:00 Noon Lunch

1:00 p.m.

WHAT'S HAPPENING? - THE REAL WORLD OF APPLICATIONS (Continued)

HIGH SPEED DIRECT PRINTING FOR THICK FILM APPLICATIONS
Dr. Bo Li, Development Engineer, nScrypt, Inc., Orlando, Florida, USA

- High Viscosity Materials Dispensing Challenges
- Printing Options: Direct Printing, Spray, Micro Mixing & Dispensing and Conformal Printing
- High Speed Printing Technologies
  - High Speed Printing
  - Thick Film Capability
  - Parallel Printing Capability
- Case Studies

CAN INK JET PRINTING PRODUCE MRI COILS?
Dr. Patrick J. Smith, Laboratory for Simulation, Dept. of Microsystems Engineering-IMTEK, Univ. of Freiburg, Freiburg, Germany

- Requirements for MRI Coils
  - High Conductivity for Low Signal-to-Noise Ratio
  - Uniform Cross-Sectional Area throughout structure's Length to Ensure Predicable Current Distribution in the Metal
- Questions & Responses Facing Ink Jet Based Processing Route for MRI Coils
- Ink Jet Printing has been used to Produce Features with High Conductivity using a Silver Solution Ink
- By Optimizing Ink Formulation, Features with Uniform Cross-Sectional Areas can be Produced by Ink Jet Printing
- Ink Jet as a Low Cost Fab Route

INK JET PRINTING OF ELECTRONIC & BIOMEDICAL MATERIALS
Dr. Paul Calvert, Co-Director Biomedical Engineering & Biotechnology Program, Dept. of Materials & Textiles, University of Massachusetts-Dartmouth, North Dartmouth, Massachusetts, USA

- Ink Jet Printing can Deliver Dots, Lines & Areas of Material with Lateral Resolution of about 100 Microns & Thickness Resolution of about 100 nm
- By Printing Different Materials Sequentially, it should be possible to Build Complex Electronic Devices
- Need to Develop Palette of Materials & Methods to allow us to Ink Jet Print New Families of Devices that Incorporate Polymers, Biological Molecules & Cells
- Efforts to Print Range of Conductors, Sensors, Antennas & Cells onto a Variety of Substrates

APPLICATIONS OF INK JET TECHNOLOGY IN DISPLAY MANUFACTURING
Tom Ashley, Director, Pivotal Resources USA, Lexington, Kentucky, USA

- Display Markets
  - Applications
  - Market Size and Growth
- Benefits and Challenges of Ink Jet Printing
  - Flexible Backplanes for Displays
  - Color Filters for LCDs
  - Polymer OLED Materials
  - Materials for Electrophoretic Displays
  - Other Applications
- The Future of Printed Displays

DIGITAL FABRICATION USING VERSATEEL^{TR} INERT PIEZO PRINTHEAD TECHNOLOGY
Dave Wheeler, Marketing Manager, Trident Industrial Inkjet, Brookfield, Connecticut, USA

- Manufacturing Challenges
  - Compared to Traditional Methods
  - Fluid Property Challenges
  - Advantage of Heated Printhead
- Ink Jet Technology as Solution
  - Deposition Tools
  - Hot Melt Resist
- Ink Jet Manufacturing Applications
  - PCB
  - LCD

5:00 p.m. Adjournment

Media Partners for Ink Jet Technology Suppliers Showcase 2008

DIGITAL GRAPHICS

Digital Graphics is the most widely acknowledge large-format digital print trade publication in the world consistently offering complete, accurate, tightly focused information and feature articles geared to industry professionals.
www.nbm.com/dg

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I-Micronews

THE DISRUPTIVE SEMICONDUCTOR TECHNOLOGIES MAGAZINE

FROM CONCEPT TO DEVICES TECHNOLOGIES FINANCES BUSINESS MARKETS...

Micronews is a free monthly magazine dedicated to Micro & Nanotechnologies for Life Sciences & Chemistry and other topics. The newsletter is dedicated to giving clear snapshots of the evolution of the business, the latest noteworthy news (techno, business and finance), and a special marketing report - Micronews - was created by Yole Développement in 2002. A Japanese version was launched in 2005, and I-Micronews, **www.i-micronews.com**, the disruptive semiconductor website was created last year.

PHOTO IMAGING NEWS

The worldwide Photo Imaging News team, headquartered in Bonita Springs, Florida, USA, publishes international industry periodicals in Chinese, English and Spanish. In addition, the team offers global market reports and statistics/forecasting as well as consulting, covering picture-taking and picture-making. **www.photo-news.com**

SIGN Business

Sign Business is the most widely-read and highly regarded monthly trade publication serving the sign industry. In each issue you will find real-world, hands-on graphics applications, shop techniques, product reviews, professional advice on using new technologies and much more.
www.nbm.com/sb

Veritas et Visus

In Latin, "Veritas et Visus" means "Truth and Vision". The organization's 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 into a format that is useful to readers. Veritas et Visus offers five specialty newsletters covering Flexible Displays, 3D Displays; Touch Screens; High Resolution; and Display Standards. **www.veritasetvisus.com**

OPEN HOUSE AT iTi, BOULDER, COLORADO

WEDNESDAY APRIL 16, 2008
(immediately prior to IMI Technology Suppliers Showcase 2008)

Prior to IMI's Ink Jet Technology Suppliers Showcase 2008, imaging Technology international (iTi), will host an Open House and brunch at it's facility in nearby Boulder, Colorado. Bus transportation will be provided, leaving the Renaissance Hotel at 8:30 a.m. and returning at 1:00 p.m. For details and to register for the iTi Open House, visit either **www.iticorp.com** or **www.imiconf.com**

Wednesday April 16, 2008

11:00 a.m. - 7:00 p.m. **Delegate's registration open**

1:30 p.m. - 7:00 p.m.
TECHNOLOGY SUPPLIERS' EXHIBITS OPEN

1:30 p.m.
INTRODUCTION TO INK JET TECHNOLOGY SUPPLIERS SHOWCASE 2008
Alvin G. Keene, President, Information Management Institute, Inc., Carrabassett Valley, Maine, USA
CHAIRMAN'S INTRODUCTION
Mike Willis, Managing Director, Pivotal Resources, Cambridge, UK

INK JET'S DIVERSE & ASSURED FUTURE
Mark Hanley, President, I.T. Strategies, Hanover, Massachusetts, USA

- A New Game for New Players
- Documents, Graphics, Industrial Markets & Manufacturing for the New Business Base
- Reviewing the Near-Term Opportunity

2:30 p.m.
TECHNOLOGY SUPPLIERS' PRESENTATIONS

INTEGRATION TECHNOLOGY

As the world's leading supplier of UV light sources for ink jet applications, and focused primarily on ink jet, Integration Technology offers a wide range of standard UV products in addition to bespoke design partnerships for Ink Jet developers.

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General Manager, NA
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1415 North Dayton Street
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TRIDENT AN ITW COMPANY INDUSTRIAL INKJET

Trident is the leader in the design and manufacture of repairable piezoelectric inkjet printheads and inks for industrial applications. Sold worldwide through licensed OEMs and integration partners, Trident-Powered printing systems are rugged, reliable and repairable – perfectly suited for industrial applications.

Contact: Dave Wheeler
Marketing Manager
Tel: +1 203 740 9333
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dwheeler@Trident-ITW.com
www.trident-itw.com

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An ITW Company
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CT 06804
USA

Wednesday 16 - Friday 18 April, 2008

Only $ 595!

imageXpert

Imaging companies throughout the world rely on ImageXpert's machine vision based image quality and part inspection solutions in their R&D labs and production lines. ImageXpert's interactive and automated systems can be used to evaluate nozzle plates, drops in flight, and print quality of traditional prints and printed electronics.

Contact: Yair Kipman
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ImageXpert Inc.
460 Amherst Street
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FUSION UV SYSTEMS, INC.

Fusion UV Systems, Inc. manufactures high-power, microwave-driven UV lamps ideally suited for UV ink jet printing, both large-format and one-pass high speed printing, owing to low heat generation, high irradiance for full-depth cure, and long-term stability of output.

Contact: David Harbourne
President
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Fusion UV Systems, Inc.
910 Clopper Road
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RICOH

Supplier of industrial strength ink jet print heads to OEMs with demanding applications. Print heads are used in wide format graphics, 3D modeling and specialty fluid dispensing.

Contact: Joe Ryan
Business Development Manager
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Fax: +1 805 578 4171
Joseph.Ryan@rpsa.ricoh.com
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USA

XAAR

Xaar is the world-leading independent supplier of state-of-the-art industrial inkjet printheads, inks and peripheral equipment. Our specialist technology and expertise ensures a rapid route to market for developers - readily available high-quality inkjet printheads and approved inks, readily available range of complementary peripherals, approved Integrator network, & licensing of Xaar's IPR.

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VP Sales & Marketing
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Xaar Americas Sales Office
2265 Roswell Road
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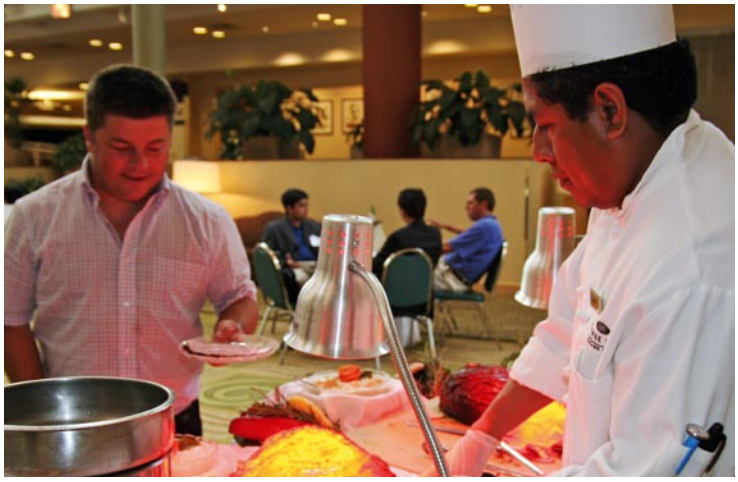
Marietta
GA 30062
USA

5:30 p.m. - 7:00 p.m. **Reception in Exhibit Area**



Thursday April 17, 2008

7:30 a.m. Breakfast
8:30 a.m. - 7:00 p.m.
TECHNOLOGY SUPPLIERS' EXHIBITS OPEN

8:30 a.m. **Session opens**

INKJET HEAD MARKET - FROM PRINTING TO MICRODISPENSING
Jérôme Mouly, Technology & Market Analyst, Yole Développement, Lyon, France

- MEMS-based Inkjet Heads Technological Overview
- Inkjet Heads Market from 2007 to 2010 – Marketing & Technological Trends
- Emerging Applications for Inkjet Heads

9:15 a.m.
TECHNOLOGY SUPPLIERS' PRESENTATIONS

Phoseon TECHNOLOGY

We are the pioneers of Semiconductor Light Matrix (SLM) based on UV-LED technology for UV Curing. SLM UV Curing systems integrate semiconductor UV-LED emitters with highly efficient power supplies, intensity control, integrated micro-optics, and advanced cooling systems - easy to integrate and operate and safe for customers and the environment.

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Phoseon Technology
7425 NW Evergreen Parkway
Hillsboro
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DUPONT

Developer and manufacturer of aqueous inkjet inks for home, office, industrial and textile applications including DuPont™ Artistri™ inks specially designed for direct-to-garment and roll-to-roll digital printing on a wide variety of fabric types.

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www.artistri.dupont.com

DuPont Digital Printing
Barley Mill Plaza, P30-2362
4417 Lancaster Pike
Wilmington
DE 19805
USA

Xennia is the world's leading chemistry driven industrial inkjet 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.

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www.xennia.com

Xennia Technology Ltd
Monroe House
Works Road
Letchworth
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UK

EXFO's Life Sciences & Industrial Division has been delivering light curing solutions for over 25 years. A global leader in UV technology, our new Excelerate line of products applies our extensive light curing expertise to high-value application solutions for manufacturers in the digital printing industry to put you in control.

Contact: Nidal Abbas
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www.exfo-uv.com

EXFO Life Sciences & Industrial Division
EXCELERATE
2260 Argentia Rd
Mississauga
ON L5N 6H7
Canada

KonicaMinolta, a leading company in electro-photography and optic devices, offers a wide variety of industrial inkjet related products including printheads, ink driver board and peripherals, to provide our customers with an easy and total solution. In particular, we focus on the fields of single-pass printing and high-tech manufacturing.

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No.1 Sakura-machi
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Japan

In Europe or USA contact **Industrial Inkjet Ltd** **www.industrialij.com**

imaging Technology international (iTi) designs, develops, and manufactures industrial inkjet systems. iTi's digital manufacturing initiatives reflect exactly what our products offer - the ability to do extensive R&D and process development, move to pilot line production and then transition to full scale fabrication - all in our family of Lab2Fab℠ systems.

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www.iticorp.com

imaging Technology international
8401 Baseline Road
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USA

ES International specializes in inkjet proofing systems. We are particularly experienced in printhead performance measurement such as drop placement accuracy (both in-flight and on substrates), drop speed optimization and drop size/volume measurement. We supply systems for printhead waveform characterization, drop ligament analysis and systems for studying the PZT performance.

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ES International NV
Diepenbekerweg 10
3500 Hasselt
Belgium

12:00 Noon **Lunch**

1:30 p.m.

INK JET INNOVATION: FAR OUT OR FOR REAL?
Marlene Bourne, President & Principal Analyst, Bourne Research, Scottsdale, Arizona, USA

- Ink Jet Printing Market Evolving in some Surprisingly Novel Ways
- Role that MEMS & Nanomaterials are Playing
- Applications Holding the Most Promise
- Coming Commercialization Challenges

2:15 p.m.

TECHNOLOGY SUPPLIERS' PRESENTATIONS

Fujifilm Sericol is the world leading supplier of screen inks, plus graphic and industrial inkjet inks. Its global digital business provides the solvent based Color+ range and the leading UVijet brand of UV curing inks. Fujifilm Sericol is the global exclusive supplier of the Inca flatbed presses and distribute a portfolio of other wide format printers.

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Fujifilm Sericol Ltd
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Pysons Industrial Estate
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Kent CT10 2LE
UK

Impika, located in France close to Marseille, is a worldwide leader in the design, manufacturing, and supply of industrial inkjet and material jetting solutions. These innovative printing solutions are based on the piezoelectric Drop on Demand technology and on a unique know-how and expertise largely approved by the major actors of the printing industry.

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IMPIKA
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France

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

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www.dimatix.com

FUJIFILM Dimatix, Inc.
East Coast Operations
109 Etna Road
Lebanon
NH 03766
USA

GIS is one of the leading providers of integrated, datapath solutions for industrial inkjet. GIS customers develop world class solutions; reducing costs & time to market, using GIS products configured for a broad applications range. GIS products allow mixed head types and technologies to be driven from the same hardware and software; a flexible plug and play solution.

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www.globalinkjetsystems.com

Global Inkjet Systems Limited (GIS)
Unit 23, St. John's Innovation Centre
Cowley Road
Cambridge CB4 0WS
UK

Amica Software
Specializing in industrial image graphics and inkjet technologies since 1988, our primary products are ColorPrint RIP software, Nuvijet control electronics, printer parts, and integration services for OEMs. Amica is experienced in wide format and single pass high speed digital press machine development. Our industrial inkjet solutions support print heads from Dimatix, Xaar, Ricoh, Toshiba Tec, Konica Minolta and Kyocera.

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Amica Software
12 Runningbrook
Irvine
CA 92620
USA

SunJet is 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, a world leader in products and services for print.

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Business Development Manager
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www.sunjetink.com

SunJet
Norton Hill
Midsomer Norton
Bath
Somerset BA3 4RT
UK

Nordson UV Ltd is a world leader in the supply of arc lamp and microwave powered UV systems. With advanced technology and integration experience, Nordson UV offers the ability to provide the most appropriate technology for each application.

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5:30 p.m. - 7:00 p.m. **Reception in Exhibit Area**

Friday April 18, 2008

7:30 a.m. Breakfast
8:30 a.m. - 1:00 p.m.
TECHNOLOGY SUPPLIERS' EXHIBITS OPEN

8:30 a.m. **Session opens**

PRINTHEAD DESIGN DEVELOPMENTS & POTENTIAL MARKET IMPACT
Charlie Brewer, Managing Editor, The Hard Copy Supplies Journal, Lyra Research, Inc., Newtonville, Massachusetts, USA

- Ink Jet Hardware & Suppliers Markets
- OEM's Investing in Application Specific Printhead Technology
- Recent Announcements: HP Edgeline™, HP Scitex X2, Silverbrook's MemJet™; and More!
- The Future is Beyond the Office

9:15 a.m.
TECHNOLOGY SUPPLIERS' PRESENTATIONS

Microfluidics, division of MFIC Corp., pioneered the Microfluidizer® high pressure Fluids processor used in R&D, pilot and production operations. The Microfluidizer® reduces particles to their primary submicron or nanoparticle level to ensure that all pigment particles are within a tight tolerance to avoid clogging tiny inkjet print nozzles.

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Fax: +1 617 965 1213
mixinginfo@mfics.com
www.mfics.com

Microfluidics
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Newton
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QEA is the leading supplier of test systems for quantitative print quality analysis and printer component testing for inkjet printing. QEA instruments are critical to objective and reliable decision making in R&D, quality assurance, process control, customer service and benchmarking. Please visit www.qea.com.

Contact: Ananna Tse
Sales Administrator
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Fax: +1 781 221 7107
Info@QEA.com
www.QEA.com

Quality Engineering Associates (QEA) Inc.
99 South Bedford Street, #4
Burlington
MA 01803
USA

Technical & marketing consultancy covering all forms of digital printing & imaging, but particularly high-speed presses and ink jet. Publisher of Directions, a bi-monthly analysis of ink jet patents.

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www.pivotal.co.uk

Pivotal Resources Ltd
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Cambridge CB24 4HJ
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Collins Ink formulates and produces water, solvent, oil-based and speciality inks for thermal (HP), CIJ (Kodak Versamark, Domino, Videojet) and DOD piezo (Spectra, Xaar) inkjet technologies. These inkjet inks are utilized mainly in the direct mail, transactional and packaging markets. All we do is make inkjet ink.

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Collins Ink Corporation
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OH 45216
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The Technology Partnership plc (TTP) is a 300-strong, independent technology and product development services company. TTP supplies Meteor 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. It supports a range of leading printheads.

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www.ttp.com

The Technology Partnership
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UK
www.ttpmeteor.com

We supply software to drive industrial inkjet printers. Applications include real time colour label printing, colour graphics, and materials printing. The ixPressia print engine has drivers for all key industrial print heads and full support for the latest greyscale technology for superb image quality.

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ixPressia
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III, founded by Xyanni, is a network, association, eco-system, society and consultancy to promote inkjet and allied high-tech industries in India and Asia-Pacific. IMI and III are holding Ink Jet India 2008 on 26-28 June, 2008 in New Delhi, India, consisting of the Ink Jet Academy: Theory of Ink Jet and Ink Jet Components, Consumables, Equipments India 2008.

Tarun Kumar
Chief Executive
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Inkjet & Hi-tech Innovation Institute
India: Level 4, Rectangle No. 1
Commercial Complex D4
Saket, New Delhi - 110017
India
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www.iii.ind.in

The Honle Group is a leading International supplier of industrial UV technology. We develop, manufacture and distribute UV Systems, UV Lamps and measurement instrumentation worldwide. Honle manufactures its own high-performance UV discharge lamps and apart from standard spectra lamps, customer specific and process specific lamps are produced.

Contact: James McCusker
President
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Fax: +1 508 229 8530
lc@honleuv.com
www.hoenle.com

Honle UV America
261 Cedar Hill Street, Bldg. C
Marlboro
MA 01752
USA

1:00 p.m. **Adjournment & exhibits close**

Ink Jet Academy

Practice of Ink Jet Technology

Hands-on printhead and inks course

June 16–19, 2008
November 17–20, 2008

Introduction

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

The course draws upon Xennia's extensive industrial inkjet experience of ink formulation and industrial inkjet 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 inkjet laboratories located near Cambridge, UK.

Monday

1:30 p.m.
WELCOME & COURSE OUTLINE

OVERVIEW OF INKJET PRINTING (Lecture)

INTRODUCTION TO INK DESIGN AND TESTING (Lecture)
- Critical aspects for the formulation of reliable inkjet fluids
- Physical properties of inkjet 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

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 characterizing inkjet fluids to include key aspects of:

- Mixing
- Preparing pigment dispersions
- Filtration
- Physical characterization 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 INKJET CHARACTERIZATION TECHNIQUES (Lecture)

INKJET CHARACTERIZATION 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 behavior
- 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

Thursday

9:00 a.m.
INKJET CONFIGURATIONS (Lecture)
- Overview of typical inkjet configurations
- XYZ printing systems
- Reel to reel/web based systems
- Fixed array/scanning

INKJET CONFIGURATION DEMONSTRATIONS (Practical)
Practical demonstrations of printing systems incorporating scanning, fixed array, XY and web based units

Lunch

INKJET 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 INKJET DEVELOPMENTS AND TRENDS (Lecture)
- Developments in printhead technology
- Overview of established, emerging and embryonic applications for inkjet

INKJET SURGERY
Ask the experts!
- Question and answer sessions

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 in nearby Hitchin 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.

Course fees

Course fees are £2,500 + VAT with a 10% discount for a second or more registrations from the same company. The fees include course notes, lunches, course dinner, breaks (but not accommodation).

Information Management Institute

Ink Jet 2008 Technology Suppliers Showcase

THE INK JET ACADEMY THEORY OF INK JET
- Attendance at all sessions
- Course reference binder
- One lunch
- One reception
- One breakfast
- Coffee breaks

Registration fee $1,095

INK JET AS A MANUFACTURING PROCESS SYMPOSIUM
- Attendance at all sessions
- Conference reference binder & CD
- One lunch
- One reception
- One breakfast
- Coffee breaks

Registration fee $1,095

INK JET TECHNOLOGY SUPPLIERS SHOWCASE 2008
- Attendance at all sessions
- Conference reference binder & CD
- One lunch
- Two receptions
- Two breakfasts
- Coffee breaks

Registration fee $595

A discount of $100 is given for the second and subsequent registrants from the same company OR for registrants attending the Ink Jet Technology Suppliers Showcase 2008 plus The Ink Jet Academy or Ink Jet As A Manufacturing Process Symposium.

Cancellations will receive a 100% refund if made 72 hours prior to the start of the program. Cancellations made less than 72 hours before the start of the conference will be subject to a $300 cancellation fee. Substitutions may be made at any time.

To register submit the registration form with payment to Susan Meldrum, Conference Administrator, Information Management Institute, Inc., 1106 Valley Crossing, Carrabassett Valley, ME 04947 USA.

You may reserve space by calling +1 207-235-2225, sending a fax to +1 207-235-2226, sending an email message to imi@imiconf.com or visiting our web site **www.imiconf.com**

Hotel reservations are the responsibility of each conference participant. Early booking is advised as the group rate of $139 for single or double occupancy is guaranteed only until March 24, 2008

Check box(es) for desired programs

☐ **INK JET ACADEMY** $1,095

☐ **INK JET AS A MANUFACTURING PROCESS SYMPOSIUM** $ 1,095

☐ **INK JET TECHNOLOGY SUPPLIERS SHOWCASE 2008** $ 595

NAME ..... JOB TITLE .....

COMPANY .....

ADDRESS .....

CITY ..... ZIPCODE ..... COUNTRY .....

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