

Digital Printing World 2010 Conferences

Crowne Plaza San Marcos Resort
Chandler (Phoenix), Arizona



13th Annual Toner Printing Conference

February 1-3, 2010

21st Annual Thermal Printing Conference

February 1-3, 2010

Ink Jet Academy: Theory of Ink Jet Technology

February 1-2, 2010

19th Annual Ink Jet Printing Conference

February 3-5, 2010

For the first time, *IMI's Digital Printing World 2010 Conferences* groups all three of its annual digital printing primary technology conference programs during the same week. IMI's programs are designed to enable attendees to obtain the latest technical, market and application information while allowing time to network with other attendees in a time and cost efficient manner. Attendance at IMI conferences enables attendees to meet with the digital printing industry's leading experts in a single location in a short time period maximizing information transfer efficiency and minimizing travel and time expenses.

While conventional printing declines, digital printing offers personalization, cost savings, improved output options and other opportunities to end users as the transition from an analog to digital world accelerates – which is being reflected in the growth of digital printing applications and opportunities. *IMI's Digital Printing World 2010 Conferences* provides programs and formats to obtain a timely update and understanding of key digital printing technologies, markets and applications which are key to your product and market success.

Complimentary Conference Displays & Suppliers' Forum

IMI's Digital Printing World 2010 Conferences provide the opportunity to have complimentary display space to exhibit your products, technology or services and to give a commercial 5-minute Suppliers' Forum presentation.

IMI will cooperate with all interested parties to provide appropriate space so products can be displayed and demonstrated during the conference breaks and receptions. **There is no fee in addition to the conference registration fees to have a display and/or to give a Suppliers' Forum presentation.**

To reserve your display space and Suppliers' Forum presentation slot, please register online and check off the box indicating your participation OR complete the registration form in this flyer and fax to +1-207-235-2226 OR send an email to al@imiconf.com

Call for Papers
Submit Proposed
Presentation Titles & Brief Outlines to
Al Keene al@imiconf.com

For Latest Program Updates &
To Register Online
Visit IMI Web Site
www.imiconf.com



13th Annual Toner Printing Conference

Crowne Plaza San Marcos Resort
Chandler (Phoenix), Arizona

February 1-3, 2010

IMI's **13th Annual Toner Printing Conference** focuses on technology, market and applications challenges & opportunities facing the toner industry. Dry and liquid toners have been integral imaging materials for over fifty years. These toners have evolved in properties, composition and production over that period. During the past fifty years, other imaging techniques have been introduced, but only ink jet has proven to have the combination of image quality, economics and versatility to seriously challenge toner-based imaging devices.

Improved print quality, expanding applications, higher resolutions, enhanced user expectations, etc. are all requiring improved toner based products to effectively compete in the digital printing marketplace. Additionally, the increased adoption of color digital printing, introduction of chemically produced toners, movement away from light lens based copiers, etc. are all placing new requirements on the toner industry. These improvements all require new or improved chemical raw material products to meet users' requirements as toner based imaging continues to evolve in a competitive marketplace.

This unique conference program, IMI's only 2010 program focused on the toner and toner raw materials industry, offers an excellent opportunity for raw materials suppliers, imaging chemicals manufacturers, hardware developers and end users to join together and obtain a comprehensive assessment of the toner based imaging chemicals industry. There simply is not a better or more cost effective place to obtain the latest information defining **the future of toner and toner raw materials**.

Monday, February 1, 2010

11:00 a.m. Registration

1:00 p.m. Opening Session

Toner Industry in Perspective

Welcome & Introductions

Alvin G. Keene, President, Information Management Institute, Inc., Carrabassett Valley, Maine

- 2009 Toner Industry in Review & Looking Forward
- World Toner Markets
- High Speed Digital Printing Looking Forward: Dry Toner, Liquid Toner & Ink Jet
- Chemical Toners: Are They The Future?

5:30 p.m. Networking Reception in Display Area

Tuesday, February 2, 2010

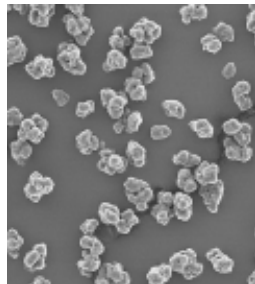
7:30 a.m. Breakfast

8:30 a.m. Session 2

Raw Materials Status & Innovations to Enhance Market Development

Raw Materials Review, Developments, Trends and Projections

- Polymers & Waxes
- Resins
- Colorants
- Carbon Black
- Magnetic Oxides
- Charge Control Agents
- Specialty Additives
- Carrier Cores & Coatings
- Photoreceptors
- Others



- Bio-Based Resins & Toners: Has The Time Come?
- Impact Of Environmental & Safety Issues On Toner Industry

12:00 Noon

Luncheon

1:30 p.m.

Session 3

Chemical & Conventional Toner Production Advancements

- Can Conventional Toner Win The Cost Of Ownership Battle?
- Print Quality Competitiveness In The Marketplace
- Required Performance Benchmarks
- Processing & Production Technique Advancements
- Market Growth & Penetration

Suppliers' Forum: 5-Minute Presentations related to Toner and Toner Materials Technology, Product or Service Capabilities. The Suppliers' Forum is open to all Conference Registrants

5:30 p.m. Networking Reception in Display Area

Wednesday, February 3, 2010

7:30 a.m. Breakfast

8:30 a.m. Session 4

Future Toner Industry Requirements, Challenges & Opportunities

- Challenges To Toner Based (Laser) Printing's Dominant Market Position
- Requirements For Specialty Toners To Expand Markets
- Health, Safety & Environmental Issues
- Industrial Printing Applications: Challenges & Opportunities
- Is Liquid Toner Going To Experience New Growth?
- Distribution Channel Growth: OEM Vs. Aftermarket

12:00 Noon

Adjournment

21st Annual Thermal Printing Conference

Crowne Plaza San Marcos Resort
Chandler (Phoenix), Arizona

February 1-3, 2010

IMI's **21st Annual Thermal Printing Conference** provides the most comprehensive thermal industry coverage ever. Key worldwide thermal market sectors will be reviewed from supplier, channel sales and end-user perspectives. Advances in wireless communications, hand held devices and web-hosted software that represent driving market forces in distributed printing will be presented in the context of their likely impact in thermal markets. Innovation and compliance initiatives that represent new growth drivers for direct thermal and thermal transfer usage will be presented from an application perspective along with the latest events and advances in photographic quality printing and thermal printhead technology. Finally a review of thermal industry sales channel dynamics, worldwide capacities and the impact of the current worldwide economic slowdown will cap off this comprehensive conference.

Monday, February 1, 2010

11:00 a.m. Conference Registration

1:00 p.m. Opening Session

Global Thermal Printing Industry

Welcome & Introductions

Alvin G. Keene, President, Information Management Institute, Inc., Carrabassett Valley, Maine

Conference & Industry Overview

Conference Chairman: Harold Schofield, Schofield Imaging Associates, Narragansett, Rhode Island

- Program Highlights
- Latest Worldwide Thermal Printing Survey

Global Market Developments - Impact on Thermal Printing

- North America
- Europe
- Far East & Pacific Rim
- Developing Economies, China, Africa, Latin/South America, Etc.

Key Market Segment Updates - Usage Trends vs. Print Technologies

- POS & Kiosks
- Tags, Tickets & Labels
- Photo
- Mobile
- ID & Security
- Specialized Printing

5:30 p.m. Networking Reception in Display Area

Tuesday, February 2, 2010

7:30 a.m. Breakfast

8:30 a.m. Session 2

Direct Thermal & Thermal Transfer Technology & Applications

- Worldwide Markets
- Supply Chain Update
- Technology Enhancements
- Specialized Product Advances
- Tags, Tickets & Labels
- POS, Mobile, Kiosk & Other Product Areas
- Enabling Technologies
- Competitive Forces

12:00 Noon Luncheon

1:30 p.m.

Session 3

Thermal Printhead Update

- Thermal Printhead Fundamentals & Selection Process
- Updates from Key Suppliers
- Required Performance Benchmarks
- Latest Cost/Performance Advancements
- Advanced Printhead Market Opportunities

Suppliers' Forum: 5-Minute Presentations related to Thermal Printing Technology, Product or Service Capabilities. The Suppliers' Forum is open to all Conference Registrants

5:30 p.m. Networking Reception in Display Area

Wednesday, February 3, 2010

7:30 a.m. Breakfast

8:30 a.m. Session 4

Technology, Channels & End Use Opportunities

- Wireless Communications & Thermal Printing
- Web-hosted Applications
- Update on Printers & Applications
 - Bar Code, Tag, Ticket & Label Printing
 - Mobile Printing
 - Transaction Printing
 - Photo, ID & Security Printing
 - Specialty & Production Printing
- Updates on Supplier Channels & Opportunities
- New & Compelling End User Markets
- World Economic Impact

12:00 Noon

Adjournment





19th Annual Ink Jet Printing Conference

Crowne Plaza San Marcos Resort
Chandler (Phoenix), Arizona

February 3-5, 2010

IMI's unique **19th Annual Ink Jet Printing Conference** is the only 2010 U.S. ink jet printing industry event devoted entirely to ink jet printing technologies, markets and applications. Ink jet printing continues to make technology advancements in product functionality, cost performance, print quality and nonprinting/deposition capabilities. Such improvements have made ink jet printing the leading digital printing technology with expansion into many new markets and applications. In addition to personal and office computer printing, applications such as display graphics, materials deposition, digital photography, digital printing presses, multifunction printers, printable electronics, 3D modeling, biomedical, textile printing, packaging printing and many other specialty printing and nonprinting applications are increasingly using ink jet as the technology of choice. As ink jet printing becomes a manufacturing tool as well as a printing technology, market opportunities have never been better, albeit in a very competitive environment.

This conference program is designed to bring together the ink jet industry's leading experts to provide a comprehensive assessment of the ink jet printing industry. The program will address the most recent innovations, trends and issues critical to continued adoption, growth and expansion of ink jet printing applications and markets. As ink jet printing continues to increase market share in numerous application sectors; this **19th Annual Ink Jet Printing Conference** provides an unique opportunity for representatives from all segments of the printing industry to obtain information critical to their understanding of ink jet printing technology and market dynamics that are shaping the industry's future.

Wednesday, February 3, 2010

11:00 a.m. Registration

1:30 p.m. Opening Session

The Expanding Ink Jet Industry

Welcome & Introductions

Alvin G. Keene, President, Information Management Institute, Inc., Carrabassett Valley, Maine

Conference Co-Chairmen:

Dr. Ross N. Mills, Chairman & CTO, i T i, Boulder, Colorado

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

- Ink Jet Printing's Role In Market Place
- Market Size & Structure
- Technology & Product Trends: Piezoelectric, Thermal & Continuous
- Applications Development Trends: Ink Jet As A Manufacturing Process

6:00 p.m. Networking Reception in Display Area

Thursday, February 4, 2010

7:30 a.m. Breakfast

8:30 a.m. Session 2

Technology Advancements

- Printhead Developments As Market Drivers & Enablers
- Technology Challenges, Hurdles & Breakthroughs
- New & Developing Print Engine Design Concepts
- Efforts To Lower Cost Of Ownership
- Print & Deposition Quality Improvements
- Subsystem & Housekeeping Advancements
- Improvements In Design & Integration Tools
- Opportunities For Future Technology Developments

12:00 Noon Luncheon

1:30 p.m.

Session 3

Consumables: Lifeblood of the Industry

- Consumables Developments: Market Drivers-Enablers
- Drying & Curing Technology Innovations
- Specialty Papers, Films & Substrates
- Photo Inks & Media
- Metallic, Electronic & Other Specialty Fluids
- Exotic Materials Printing & Deposition Challenges
- Development Trends
- Application Requirements

Suppliers' Forum: 5-Minute Presentations Related To Ink Jet Technology, Capabilities, Services, New Product Introductions, etc. The Suppliers' Forum is open to all Conference Registrants

6:00 p.m. Networking Reception in Display Area

Friday, February 5, 2010

7:30 a.m. Breakfast

8:30 a.m. Session 4

Integration & Implementation for Real World Applications

- Graphic Arts, Proofing, Etc.
- Printable Electronics & Displays
- Materials Deposition
- Medical, Biomedical & Related Dispensing
- Ink Jet As A Manufacturing Tool
- Digital Electronic Printing Presses
- Large & Grand Format Color Printing
- Photographic & High Quality Printing
- Textile printing
- Packaging
- Other Specialty Applications

1:00 p.m.

Adjournment



Ink Jet Academy: Theory of Ink Jet Technology

Crowne Plaza San Marcos Resort
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February 1-2, 2010

Ink jet printing is the fastest growing imaging technology for office and graphics applications and particularly for digital fabrication, 3D modeling, printable electronics and many other industrial applications. These many new applications are opening up extensive opportunities for materials suppliers, media developers, consumables manufacturers, systems suppliers and others. But entering the ink jet market or just branching out into new parts of it can present a considerable technical challenge with many barriers to commercial success. Understanding the fundamentals is a prerequisite to any development. **The Ink Jet Academy: Theory of Ink Jet Technology** offers a 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.

Led by Dr. Alan Hudd, Xenxia Technology and Mike Willis, Pivotal Resources, **The Ink Jet Academy: Theory of Ink Jet Technology** provides a program and convenient format to get an expert start in the ink jet field, to get an update or to open up new ink jet fields.

Monday, February 1, 2010

12:00 Noon Registration

1:00 p.m. Opening Session

WELCOME & INTRODUCTIONS

Alvin G. Keene, President, Information Management Institute, Inc., Carrabassett Valley, Maine

INTRODUCTION

- Course Overview
- Types of Ink Jet Technology
- Brief History
- Drop on Demand Technologies
- Thermal & Piezo Ink Jet
- State of the Art
- Office & SOHO Markets & Applications

INDUSTRIAL APPLICATIONS

- Evolution Of Industrial Ink Jet Ink Printing
- Technology Advances
- Printheads & Printers
- Ink Technologies
- Current Status & Emerging Applications

INK TECHNOLOGY

- Understanding the Ink Jet Ink Printing Process
- Designing an Ink Jet Ink
 - Piezo Drop on Demand
 - Continuous Ink Jet
 - Thermal Ink Jet
- Properties influencing Ink Jet Performance
- Typical Performance Issues
- Diagnosing Typical Ink Problems
- Ink Types: Solvent, Aqueous & UV Cure
- Testing an Ink for Reliability: Methods & Characterization

DOD PRINthead DESIGNS & VENDORS

- Thermal Ink Jet
- Piezo Ink Jet
 - Piston Mode Designs
 - Roof Mode Actuators
 - Stacked Piezo Technology
 - Shear Mode Designs
 - Silicon Printheads

5:30 p.m. Networking Reception in Display Area

Tuesday, February 2, 2010

7:30 a.m. Breakfast

8:30 a.m. Session 2

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

PRINT & IMAGE QUALITY

- Factors Affecting Print Quality
- Technologies To Improve Print Quality
- Improving Image Quality

12:00 Noon Lunch

1:00 p.m. Session 3

SYSTEM DESIGN ISSUES

- Nozzle Maintenance
- Drop Detection
- Filling/Bubble Removal
- Ink Supply & Replacement

FUTURE DEVELOPMENTS

- Evolution Of Current Technology
- Hardware & Ink Technology Advancements
- Status & Development of Ink Technology
- Important Future Applications
- Recent & Projected Trends

5:00 p.m. Adjournment

Ink Jet Academy Leaders

Dr. Alan L. Hudd, Chief Executive Officer, Xenxia Technology Limited, Letchworth, Hertfordshire, UK

In 1996, Dr. Hudd founded Xenxia Technology; the world's first independent contract inkjet technology house dedicated to the industrial and office inkjet industries. Since then, Dr. Hudd has grown Xenxia into a leading player in the rapidly emerging market for industrial inkjet technologies. Under Dr. Hudd, Xenxia has developed a unique set of inkjet chemistry, engineering and problem solving capabilities that has resulted in a number of important technology innovations, especially in the field of inkjet dispensing of difficult materials.

Prior to establishing Xenxia, Dr. Hudd was for 8 years the Fluids Technology Manager at Domino Printing Sciences, developing a wide range of inkjet inks for diverse applications and is credited with a number of patents and significant innovations within the industrial inkjet industry. 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.

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

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, Mr. Willis was Director of Electronic Printing at Meta Generics. He 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.

REGISTRATION INFORMATION: IMI's Digital Printing World 2010 Conferences



Registration Fees: \$1095 per registrant per program
\$995 for each additional registrant from same company when registered as a group

The registration fee includes attendance at all sessions, all scheduled program functions and the program reference binder/CD. Cancellations will receive a 100% refund if made 72 hours prior to the start of the program. Substitutions may be made at any time. Cancellations made less than 72 hours prior to the start of the program will be charged a \$300 cancellation fee, but will receive a copy of the conference binder/CD.

To register, submit the registration form with payment to Susan Meldrum, Conference Administrator, Information Management Institute, Inc., 1106 Valley Crossing, Carrabasset Valley, ME 04947 USA. You may reserve space by calling +1-207-235-2225, sending a fax to +1-207-235-2226 or by sending an email message to imi@imiconf.com or visiting our web site www.imiconf.com

REGISTRATION FORM

- 13th Annual Toner Printing Conference**
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- 19th Annual Ink Jet Printing Conference**
February 3-5, 2010
- I wish to reserve a Display Space & Suppliers' Forum slot**

Mr. ___ Ms. ___ Miss ___ Mrs. ___ Dr. ___

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Crowne Plaza San Marcos Resort

IMI's **Digital Printing World 2010 Conferences** are at the Crowne Plaza San Marcos Resort (www.sanmarcosresort.com), an impressive property that's listed on the National Register of Historic Places in Chandler Arizona. Hotel reservations are the responsibility of each meeting registrant. To receive the special conference rate of \$159 for single or double occupancy – Call +1-480-812-0900 - Ask for **Reservations** and identify yourself as a member of the Information Management Institute group. **Early booking is advised** as the reduced rate is guaranteed only until January 11, 2010.

Instructions for making reservations online will be posted on IMI's web site www.imiconf.com as soon as they are available.

The Crowne Plaza San Marcos Resort is located on 123 landscaped acres in charming downtown Chandler (www.downtownchandler.org) just twenty minutes southeast of Phoenix Sky Harbor International Airport.

The Crowne Plaza San Marcos Resort was the first golf resort in Arizona (1913) and offers restaurants/shopping just steps from the resort. The 295 guestroom feature private patios or balconies overlooking luxuriously landscaped courtyards and offer complimentary in-room internet plus Crowne Plaza's Sleep Advantage program. The 18-hole, 6,626 yard golf course was the first course in Arizona with grass greens.

Special conference golf rates are:
\$79.00 including green fees and cart for Friday-Sunday
\$69.00 including green fees and cart for Monday - Thursday

The Crowne Plaza San Marcos Resort address is

Crowne Plaza San Marcos Resort

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Don't Miss IMI's & IMI Europe's Other Upcoming Programs

Ink Jet Academy: Practice of Ink Jet Technology
October 19-22, 2009
Letchworth, UK

Ink Jet Academy: Theory of Ink Jet Technology
November 2-3, 2009

17th Annual European Ink Jet Printing Conference
November 4-6, 2009
Fira Palace Hotel
Barcelona, Spain

6th Annual Security Printing Conference
November 16-18, 2009

Sheraton Baltimore City Center Hotel
Baltimore, Maryland, USA

3rd Digital Printing Presses - The Next Era - Conference
Dates & U.S. Location to be Announced
Spring, 2010

Visit www.imiconf.com for updated program and registration details