



18th Annual Ink Jet Printing Conference

February 4-6 , 2009

Ink Jet's Role

in Emerging Technologies Symposium

February 2-3, 2009

Ink Jet Academy

February 2-3 , 2009

Crowne Plaza Mid-Peninsula
Foster City (San Francisco), California



Conference Co-Chairs

Dr. Ross N. Mills, i T i

Mike Willis, Pivotal Resources

IMI's unique **18th Annual Ink Jet Printing Conference** is the only 2009 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 **18th 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.

Ink Jet's Role in Emerging Technologies Symposium is a new and novel program designed as a forum to offer, discuss and promote ink jet technologies role and potential to be a key contributing component in emerging technology fields such as alternative energy, biotechnology, electronics and others.

Ink jet's unique capabilities to dispense precise quantities of a wide range of materials results in its utilization in a vast array of applications. Compared to currently employed processes such as injection molding, casting, plating, coating, photolithography, etching etc., 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. Its attributes make it an enabling technology that generates breakthroughs in many emerging technologies applications.

Emerging technology developers are constantly stretching ink jet's operational parameters to obtain solutions in printing of exotic materials, precision dispensing, digital manufacturing, etc. This symposium is designed to explore ink jet technology's role (current and potential) to assist in the development and advancement of emerging technologies which continue to advance science and improve our lifestyles.

Join us at IMI's inaugural **Ink Jet's Role in Emerging Technologies Symposium** to tell your story and to learn how ink jet technology is contributing to the development of emerging advanced technologies.

The Ink Jet Academy - The Theory Of Ink Jet Technology

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.

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.



18th Annual Ink Jet Printing Conference

Crowne Plaza Mid-Peninsula
Foster City (San Francisco), California

February 4-6, 2009

Wednesday, February 4, 2009

11:00 a.m. Conference Registration

1:00 p.m. Opening Session
The Expanding Ink Jet Industry

WELCOME AND INTRODUCTIONS

Alvin G. Keene, President, Information Management Institute, Inc., Carrabassett Valley, Maine
Dr. Ross N. Mills, Chairman & Chief Technology Officer, imaging Technology international, Boulder, Colorado
Mike Willis, Managing Director, Pivotal Resources, Cambridge, England

THE PAST 10 YEARS - THE NEXT 10 YEARS: WHERE ARE WE ON THE EVOLUTIONARY SCALE?

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

- How far has Ink Jet Technology Progressed?
- The Changing Technology Base
- Ink Jet DRUPA: The Real Status
- Desktop Ink Jet: Beyond the Adoption Phase - Does that mean No Further Development?
- Future for Digital Commercial Printing: Page Chasing or New Applications?
- Ink Jet as a Manufacturing Process
- The Patent Scene: Update on Vendor Filings
- Will the Pace of Change Change?

WHO IS MOVING AHEAD IN DIGITAL PRINTING?

Marco Boer, Consultant, I.T. Strategies, Hanover, Massachusetts

- Comparison the Ink Jet & Electrophotography Positioning of Top Ten Manufacturers: Hewlett Packard, Canon, Ricoh, Xerox, Fujifilm, Konica Minolta, Epson, Lexmark, Océ & Kodak
- Revenue History & Projections by Product Segment
- Strategy
- Leading Strengths & Technologies
- Ink Jet & EP 5-year Positioning

INK JET FOR TRACK & TRACE SECURITY

Wendell M. Smith, Founder & Consultant, Technology Transfer Group, Division of Polestar Ltd., Enfield, New Hampshire

- Ink Jet Enables Possibility of Unique Identifier Codes (UIC) at Unit Production Level
- Taggants & Dyes provide Forensic, Machine Readable Codes Invisible to Eye
- Examples of Thermal & Continuous Ink Jets used for Digital Marks
- Track & Trace System Generating Unique Identifiers
- Printing on Packaging & Filling Machines
- Code Readers for Quick Automatic Reading, Warehouse & Transportation Applications
- Use Visible or Invisible Code or RFID
- Low Cost & Excellent Reliability: Same as Printed Bar Codes
- Fast Simple Printing: Automatic Reading of UICs & Continuous Update of Object Location/ Authenticity can Defeat Counterfeiting, Piracy & Diversion

INK JET'S ROLE IN PRINTING INDUSTRY'S PROGRESSION FROM ANALOG TO DIGITAL

Elizabeth Logue, Director Corporate Development, EFI, Foster City, California

- EFI's Role in Ink Jet Business
- Goal: Increase Print Service Providers' Automation, Cost Savings & Revenue Stream Opportunities
- Leveraging EFI's Technology for Complete End User Solutions
- Development of High Speed Ink Jet Systems
- Challenges in Addressing New Markets & Integration
- Partners & Cooperative Efforts Key to Success

INK JET FOR DIGITAL FABRICATION: OPPORTUNITIES & CHALLENGES

Dr. Ross N. Mills, Chairman & Chief Technology Officer, imaging Technology international, Boulder, Colorado

- Ink Jet in the Printing World
- Traditional Printing vs. Digital Fabrication
- Special Requirements
- Ink Jet Evaluation & Integration
- The Future of Digital Fabrication

FROM THE PRESS TO PAPER RECYCLING: WHY INK JET INKS MUST BE DEINKABLE

Axel Fischer, Head of Public Relations, INGEDE (International Association of the Deinking Industry), Munich, Germany

- How Paper Recycling Works
- Why Today's Ink Jet Inks Create Problems
- Differences between the U.S. & Europe - and What They Have in Common
- Deinking is the Key Process in Paper Recycling
- About Dyes & Pigments: How Ink Behave in Deinking
- Ink Jet DRUPA: The Real Effect
- Why Think About Recycling? Eco-Labels & Green Public Procurement
- Future of Ink Jet Inks - There is a Way

6:00 p.m. Reception in Display Area

The Crowne Plaza Mid-Peninsula address is

Crowne Plaza Hotel Mid-Peninsula
1221 Chess Drive
Foster City, CA 94404
Phone: +1-650-570-5700
Fax: +1-650-570-0540

www.crowneplaza.com/sfo-peninsula

Register Now

Online at www.imiconf.com

Call +1-207-235-2225

Fax: +1-207-235-2226

Email: imi@imiconf.com

Thursday, February 5, 2009

7:30 a.m. Continental Breakfast

8:30 a.m. Session 2
Technology Advancements

PIEZO INKJET PERFORMANCE ENHANCEMENTS USING SILICON MEMS

Martin Schoeppler, CEO & President, FUJIFILM Dimatix Inc., Santa Clara, California

- Silicon MEMS Manufacturing
 - Technologies & Implementation
 - Features & Benefits
- SAMBA Inkjet Technology
 - Key Attributes
 - Possible Directions
- Q-Class Platform
 - Product Ranges & Configurations
 - Performance Characteristics
- VersaDrop Imaging in Practice
 - Key Enablers
 - Modes of Operation

TONEJET: TAKING DIGITAL INTO THE INDUSTRIAL MARKETPLACE

Guy Newcombe, Chief Technical Officer, Tonejet, Melbourn, Hertfordshire, UK

- Drop on Demand Tonejet Technology: Status & Developments
- Requirements for Transition into Truly Mass Markets
 - Superb Images on any Material
 - High Throughputs
 - Low Cost Levels
- Major Market Sectors
 - Flexible Film
 - Beverage Containers
 - Paperboard Packaging
 - Commercial Printing
- How Tonejet is being used Today to Create & Grow New Markets in Industrial Print Sector

THROUGH-FLOW TECHNOLOGY: PRACTICAL APPLICATIONS & DEVELOPMENT DIRECTIONS

Chris Lynn, VP Sales & Marketing, Xaar Americas, Inc. Marietta, Georgia

- Field Experience with Xaar 1001 Printhead
- Key Performance Measures
- A Novel Recirculating Ink Supply Design
- New Developments of the Technology

IMPROVEMENTS IN EASE OF WAVEFORM DEVELOPMENT

Dr. John Stanton, Consultant & Clive Ayling, Consultant, TTP Royston, Hertfordshire, UK

- Value of Understanding Ink Jetting Behavior & Using the Best Waveform
- Experimental Results showing Effect of Waveform & Ink Pressure on Drop Mass & Speed
- Measurement Tool Used & How it can be Adapted for Different Printheads
- Real Integration Examples

12:00 p.m. Luncheon

Consumables Issues Lifeblood of the Industry

NEW DEVELOPMENTS IN INSTRUMENTATION FOR INK JET ANALYSIS

Yair Kipman, President, ImageXpert Inc, Nashua, New Hampshire

- Drop-in-Flight Measurement: JetXpert - a Machine Vision-based System
- Other Ink Jet Instrumentation Technology
 - Nozzle Plate Inspection
 - Printhead Alignment
 - Dot Position Analysis
 - Print Quality & Color Measurement

XEROX SOLID INK PRINTING TECHNOLOGY: SOLIDIFIED LINE FORMATION & MEDIA ANALYSIS

Dr. Trevor Snyder, Principal Scientist & Dr. Jignesh Sheth, Materials Scientist, Xerox Office Group, Wilsonville, Oregon & Dr. Mark Weislogel, Portland State University, Portland, Oregon

- Solid Ink Technology Overview, Features, Latest Advancements, etc.
- Fundamentals of Individual Solidified Line Formation on Solid Surfaces
- Drop Topology as Function of Inter-droplet Spacing
- Line Uniformity, Jet Precision & Repeatability
- Analytical Model of Solidified Line Formation taking into account Thermal, Fluid & Mechanical Properties
- Statistical Analysis of Media Topology related to Media Independence

CONDUCTIVE, EDIBLE, ECOLOGICAL AND A WHOLE LOT MORE - HOW INK JET INK IS RISING TO THE CHALLENGE OF MODERN PRINTING

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

- Where Ink Jet Technology has Come From
- From Graphics to Manufacturing Processes - Steps Along the Way
- Technology Available & Current Development
- Partnerships & Hardware that make it Possible
- Case Studies
- ...And so to the Future

Conference Displays and Suppliers' Forum

IMI's 18th Annual Ink Jet Printing Conference & Ink Jet's Role in Emerging Technologies Symposium

provide the opportunity to have a free display space to exhibit your products, technology or services. Each conference registrant also has the opportunity to give a commercial 5-minute Suppliers' Forum presentation. **There is no fee in addition to the program registration fee to have a display and/or to give a Suppliers' Forum presentation.**

To reserve your complimentary display space and Suppliers' Forum presentation slot, please register online and send an email to al@imiconf.com indicating your desire to have a display and to participate in Suppliers' Forum.

LED CURING PANEL

Moderator

Quinton Stowell, Development Manager, Nordson UV, Slough, Berks, UK

ARE UV LEDs THE RADIATION SOURCE OF THE FUTURE?

Quinton Stowell, Development Manager, Nordson UV, Slough, Berks, UK

- State of UV LED Development
- Advantages & Disadvantages of LEDs
- Predictions: Where UV LED Technology will be in 3-5 Years
- What Impact this will have on Traditional Mercury Arc Lamp Industry?

EMERGING REALITY OF LED FULL CURE SOLUTION FOR DIGITAL PRINT

John J. Kuta, Director of Business Development, EXFO Life Science & Industrial Division, Mississauga, Ontario, Canada

- LED Print Application Successes to Date
- Challenges to an LED Full Cure Solution
- A Glimpse at a Bright Future

MINIATURIZATION IN LED CURING - INCREASING POWER, REDUCING FOOTPRINT

Jennifer Heathcote, General Manager North America, Integration Technology, Chicago, Illinois

- Evaluation of Barriers to LED Technology
- Peak Irradiance, Dose, Wavelength - Which is Most Important?
- Miniaturization: Driving Up the Power & Driving Down the Size
- Roadmap to the Future

UV LED CURING - JUST DO IT!

Tom Molamphy, Vice President of Sales & Marketing, Phoseon Technology, Hillsboro, Oregon

- Our View of Current State of the Art
- It's Not Just About Technology
- ...Although Technology Does Matter
- 7 (Good) Habits of Highly Effective Adopters

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

6:00 p.m. Reception in Display Area

Friday, February 6, 2009

7:30 a.m. Continental Breakfast

8:30 a.m. Session 4

Integration & Implementation for Real World Applications

THE PROOF IS IN PRODUCTION: INK JET COMES OF AGE FOR INDUSTRIAL APPLICATIONS

Dr. Alan L Hudd, President & Chief Technical Officer, Xennia Technology Limited, Letchworth, Hertfordshire, UK

- Leveraging Recent Developments in Ink Jet Printhead Technology for Reliable Production Printing
- Key Success Criteria for Ink Jet as a Manufacturing Process
 - Considerations for Fluid Formulation
 - Ink Supply
 - Motion Handling
- R&D: Developing New Applications for Ink Jet from Concept to Production
 - Development of Novel Chemistries for Nontraditional Print Applications
 - Developing Application Driven Printing Processes
- Novel Textile Pigmented Ink Jet Inks
- Production Solution Examples
 - Ceramic Tile Manufacture
 - Production Line Product Decoration

COST EFFECTIVE INK JET FOR HIGH VOLUME PRODUCTION PRINT ENVIRONMENTS

Duncan Newton, Manager, Client Development, Oce North America, Boca Raton, Florida

- Actual Implementations in High Volume Print Environments: Direct Mail, Financial & Health Care
- Compelling Value Proposition
- High Initial Cost Offset by Low Running Costs
- Total Cost of Ownership Model Makes 4-color Inkjet Cheaper than Black & White Toner-based Bills & Statements
- Oce JetStream's Multi-level Printing, Speed, Quality, Color Management, Ink, MICR & Media Options Expand Application Environments

INK JET STATUS & OPPORTUNITIES IN JETTING & WIDE FORMAT APPLICATIONS

Tim Greene, Director Wide Format and Jetting Technologies, infoTrends, Weymouth, Massachusetts

- Wide Format Applications & Markets: Technical (Architectural, Engineering & Construction Documents); Production (Posters, Signs & Banners) and Creative (Prepress, Photography & Fine Art Printing)
- Progress in Long-predicted Textile, Packaging, Labeling & Ceramics Markets
- Application, Imaging & Ink Requirements
- Drivers Creating Ink Jet Demand
- Channel Development for Various Ink Jet Markets
- How to Capture Opportunities

WHAT'S NEW IN DESKTOP INK JET PRINTER MARKET

Tom Ashley, Director, Pivotal Resources USA, Kentucky

- Desktop Printers
 - Latest Product Announcements
 - Newest Technology Releases
 - Creative Marketing
- Inks and Media
 - Ink Technology
 - Ink Branding
 - Media Developments
- Original vs. Aftermarket Supplies
 - Trends In Supplies Markets
 - Litigation & Distribution Strategy
 - Changes in the Law

DIGITAL LEATHER DECORATION: A REVOLUTIONARY PROCESS

Dr. Ray A Work, III, President, Work Associates, Hockessin, Delaware

- SIF - Smart Imaging Film - Structure & Function
- Leather Application
- Consequences to Industry & Environment
- Plans for the Future

DIGITAL PRINTING IN THE SIGNAGE INDUSTRY

Derek Johnson, Senior Technology Editor/Analyst, Sign of the Times Magazine, ST Media Group International, Cincinnati, Ohio

- Usage & Dollar Statistics (from certified & information surveys)
- Print Machines & Inks Used in Sign Industry
- Recent Applications using MEMS Technology
- Case Studies
- Future Growth & Usage in Sign Industry

1:00 p.m.

Adjournment



Ink Jet's Role in Emerging Technologies

Crowne Plaza Mid-Peninsula
Foster City (San Francisco), California

February 2-3, 2009

Monday, February 2, 2009

11:00 a.m. Registration
1:00 p.m. Opening Session

WELCOME & INTRODUCTIONS

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

INK JET's CURRENT & POTENTIAL ROLE IN PRINTED INTELLIGENCE APPLICATIONS

Jali Heilmann, Senior Research Scientist, VTT Information Technology's
Media Department, Espoo, Finland

- Printed Intelligence Research
- Research Systems for Printed Intelligence
- Functional Ink Jet Printing Materials
- Challenges of Ink Jet to Meet Manufacturing Application Requirements
- Emerging Applications of Printed Intelligence

INK JET PRINTING FOR BIOTECHNOLOGY & LIFE SCIENCE APPLICATIONS

Dr. Jan Sumerel, Manager, Biomedical Sciences, FUJIFILM Dimatix, Santa Clara, California

- Ink Jet's Capabilities & Challenges in Biotechnology & Life Science
- Cell, Tissue & Organ Engineering
- Medical Devices
- Proteomics
- Pharmaceuticals
- & Many Others!
- Future Directions

WHAT CAN INK JET INDUSTRY DO TO PROMOTE ITS FUTURE?

Moderated Forum to present and discuss options available to Ink Jet Industry Participants to Promote increased Evaluation & Adoption of Ink Jet Technology

- Informational Web Site
- Online Ink Jet Industry Directory
- Public Relations Efforts
- Case Study Reports
- Cooperative Trade Show Participation & Advertising
- End User Community Focused Activities
- Social Networking Sites, News Groups, Blogs, etc.
- Quasi or Official Trade Association
- How to Support Joint Activities in a Tight Economy
- Present Your Suggestions
- Development of a Roadmap for the Future
- Future Directions

Suppliers' Forum Session:

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

5:30 p.m. Reception

Tuesday, February 3, 2009

7:30 a.m. Continental Breakfast

8:30 a.m. Session 2

INK JET AS AN ENABLING TECHNOLOGY FOR EMERGING TECHNOLOGIES

Dr. Ross N. Mills, Chairman & Chief Technology Officer, imaging Technology international, Boulder, Colorado

- What does Ink Jet Technology Offer?
- Evaluating Ink Jet Technology for New Applications
- Systems Components (Printheads, Fluids, Electronics, Mechanics, etc.)
- Defining Critical Design & Process Parameters
- Choosing Technology & Components
- Establishing Performance Targets
- Determining Realistic Time/Cost Goals & Schedules
- Development Tools to Aid the Process
- Drivers, Barriers & Challenges in New Application Development
- Current & Future Ink Jet Technology Advancements to Aid & Foster New High Technology Applications

FROM CONCEPT TO PRODUCTION: INK JET FOR EMERGING TECHNOLOGIES

Dr. Alan L. Hudd, President & Chief Technical Officer, Xenia Technology Limited, Letchworth, Hertfordshire, UK

- The Industrial Ink Jet Proposition
- Removing Barriers for Commercial Adoption
- Requirements for Inks & Other Fluids
- Platforms for Reliable Production Printing
 - Solar Panels
 - Displays
 - RFID Tags
 - Bio Dispensing
 - Coatings
 - & More!
- The Future for Ink Jet in Emerging Technology Applications

INK JET's OPPORTUNITIES & CHALLENGES

Daniel Cline, Analyst, Lux Research, San Francisco, California

- Current State of the Market
- Challenges to Ink Jet's Adoption
- Why it May Still Succeed
- Conclusions on Emerging Opportunities

12:00 Noon Lunch

1:15 p.m.

Session 3

Tours of Facilities Working on Leading Edge Developments & Innovations

1:15 p.m.

Transportation Leaves Crowne Plaza Hotel

Tour - FUJIFILM Dimatix, Santa Clara, California

The tour will provide a company, product & personnel overview with a manufacturing facility walk through. FUJIFILM Dimatix's MEMS-based technology lets ink jet printing create products like displays and electronics, RFID antennas, smart tags, DNA arrays, smart packaging & wearable electronics. The DMP-2831 is a low cost, cartridge-based piezo ink jet printing system that enables direct deposition of functional fluids - including nanoparticle-based metallic and organic materials. A new Dimatix Materials Printer System to be introduced later this year will also be on view. **NOTE:** FUJIFILM Dimatix reserves the sole discretion to restrict any individual's entry to any or all of their facilities.

4:00 p.m. Approximate Time for Transportation Return to Crowne Plaza Hotel

Benefits of Symposium Participation

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

Ink Jet Academy: Theory of Ink Jet Technology

Crowne Plaza Mid-Peninsula
Foster City (San Francisco), California

February 2-3, 2009

Monday, February 2, 2009

11:00 a.m. 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. Reception

Tuesday, February 3, 2009

7:30 a.m. Continental 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 Course Leaders

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

In 1996, Dr. Hudd founded Xennia Technology; the world's first independent contract inkjet technology house dedicated to the industrial and office inkjet industries. Since then, Dr. Hudd has grown Xennia into a leading player in the rapidly emerging market for industrial inkjet technologies. Under Dr. Hudd, Xennia 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 Xennia, 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.

Xennia is the world's leading chemistry driven industrial inkjet integrator. Xennia provides a complete contract R&D service to support the development of new applications. 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.

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: February 2-6, 2009 Ink Jet Programs



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

Each program's registration fee includes attendance at all sessions, all program functions and the program's reference materials. 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..

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 or by sending an email message to imi@imiconf.com or registering on our web site www.imiconf.com

REGISTRATION FORM

- 18th Annual Ink Jet Printing Conference**
February 4-6, 2009
- Ink Jet's Role in Emerging Technologies Symposium**
February 2-3, 2009
- Ink Jet Academy: Theory of Ink Jet Technology**
February 2-3, 2009

NAME _____

JOB TITLE _____

COMPANY _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

COUNTRY _____

PHONE _____ FAX: _____

EMAIL _____

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Crowne Plaza Mid-Peninsula Information

IMI's **18th Annual Ink Jet Printing Conference, Ink Jet's Role in Emerging Technologies Symposium & Ink Jet Academy** are being held at the Crowne Plaza Mid-Peninsula Hotel in Foster City (San Francisco area), California. Hotel registrations are the responsibility of each conference registrant.

To receive the special conference rate of \$155 for single or double occupancy – **Call +1-650-570-5700 – Ask for Reservations AND REQUEST GROUP BOOKING CODE IMN to receive the group rate. Early booking is advised** as the reduced rate is guaranteed only until January 26, 2009.

To make hotel reservations online, go to the Crowne Plaza – Mid Peninsula Web site

www.crowneplaza.com/sfo-peninsula and

1. Under "Check Availability" on left side of screen - Insert Requested Information AND
2. Enter **IMN** in the "Group Code" field
3. Click on "Check Availability"
4. This takes you to screen where you may select the desired room and proceed through reservation procedure.

If you are arriving before Feb 1 or departing after Feb 6, you may have to make reservations by phone to obtain the group rate.

All checks should be in U.S. dollars drawn on a U.S. bank and made payable to Information Management Institute, Inc. An invoice with bank transfer details for IMI's U.S. or European bank account will be provided upon request.

Don't Miss IMI's Other Upcoming Programs

12th Annual Toner & Toner Chemicals Conference

March 16-18, 2009
Crowne Plaza San Marcos Resort
Chandler (Phoenix), Arizona

Digital Printing Presses - The Next Era Conference

March 18-20, 2009
Crowne Plaza San Marcos Resort
Chandler (Phoenix), Arizona

20th Annual Thermal Printing Conference

May 11-13, 2009
Radisson Resort Orlando-Celebration
Kissimmee (Orlando), Florida

Ink Jet Technology Showcase 2009

June 2-3, 2009
Swissotel Zurich
Zurich, Switzerland

Ink Jet Academy: Theory of Ink Jet Technology

June 4-5, 2009
Swissotel Zurich
Zurich, Switzerland

Digital Printing Summer Camp 2009

July 27-31, 2009
Specific Courses to be Announced
Sugarloaf Hotel
Carrabassett Valley, Maine, USA

17th Annual European Ink Jet Printing Conference

Fall, 2009
Dates & European Location to be Announced

6th Annual Security Printing Conference

Fall, 2009
Dates & U.S. Location to be Announced

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