



Hilton San Diego Mission Valley
San Diego, California, USA

All events include free worldwide ink jet printer & supplies market report from IT Strategies!

IMI INKJET PRINTING CONFERENCE 2018

February 7-9, 2018

Make plans to attend the IMI Inkjet Conference! We have expert overviews from senior executives and analysts, news on printhead developments including silicon MEMS announcements and circulating ink systems. Also featured are new ink technologies, the potential for ink jet in commercial, packaging, healthcare, printed electronics and 3D printing. Speakers from:

- * Alchemie Technology * BDT Print Media * Canon Solutions America * Colordyne * FUJIFILM Dimatix * Global Inkjet Systems *
- * Heidelberg * Hewlett Packard 3D * Hewlett Packard Pagewide * I.T. Strategies * Kao Collins * Landa Digital Printing *
- * Memjet * Nextflex * Sensor Films * Solimar Systems * Technische Universität Chemnitz * TIGER Drylac * Xaar * Xerox *

DIGITAL PRINT CONFERENCES 2018

NEW EVENT!

February 6-7, 2018

3 one and a half day conferences on emerging applications and technologies - the information your company needs for planning! Registering for one Digital Print Conference allows you to attend any desired sessions and receive copies of conference materials from all 3 concurrent conference programs.

Digital Packaging

Comprehensive coverage of the numerous factors, technologies, enablers & barriers, challenges, and most of all – opportunities – that are combining to create future packaging.

Security Printing

Addressing the challenges, options, and opportunities associated with security requirements, technology choices, materials, safety, and other issues required to effectively protect products and documents.

Understanding Inkjet Ink

Designed to provide an update and understanding of recent developments in inkjet raw materials, processing, curing/drying, manufacturing, hardware innovations, etc. that have driven ink innovations.

INK JET ACADEMY

Theory of Ink Jet Technology

February 6-7, 2018

This one and a half day course has been attended by over 3,000 in the past 18 years. Completely revised, this course is aimed at people in the industry who would like an up to date overview of the ink jet technology used today. Led by Mike Willis of Pivotal Resources and Dr Alan Hudd of Alchemie Technology.



Course leaders

Mike Willis Pivotal Resources Ltd



Mike Willis is the founder and Managing Director of Pivotal Resources, an international marketing and technical consultancy specialising in digital printing.

He has worked in this industry for the past 30 years, accumulating considerable experience in a wide range of imaging technologies. Recognised as an industry expert, he regularly speaks and gives tutorials at printing conferences in Europe and North America. In addition he is the publisher of Directions, a service that monitors ink jet patents and significant product launches.

In May 1990 Mike was a founder member of Xaar, a company set up to exploit high resolution piezo ink jet technology. Later, while responsible for business development, he promoted the technology, forging links with printer companies world-wide.

Mike began his career at Gestetner Limited, working on a variety of photocopier projects, and was responsible for the development of image processes. He graduated from the Polytechnic of Central London in 1976 with Honours in Photographic Sciences.

Dr Alan Hudd Alchemie Technology Ltd



Dr Hudd is Chairman and co-founder of Alchemie Technology Ltd.

Alchemie is an independent contract development and consultancy company to the industrial ink jet industry. Alchemie is also developing

and commercialising a range of novel printhead technologies through its Joint Venture company, Jetronica. Jetronica specialises in supplying solutions to selectively pattern liquids and powders capable of using a wide range of chemistries from graphene through textile pre-treatments and 3D printing of metal powders to drugs for implantable drug devices. Alchemie also has a strategic partnership with Trident and supplies Trijetica solutions based on Trident industrial printheads.

Alan Hudd was a founder of Xennia Technology and Managing Director from 1996 to 2012. During this period Alan built Xennia to become a world leading ink jet developer and solutions provider to industrial ink jet markets.

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.

Dr Hudd graduated with a BSc Honours degree in Chemistry and Physics, MSc and PhD research degrees in Polymer Chemistry from Manchester University.

INKJET ACADEMY

1.5 day course

February 6-7, 2018

COURSE FOCUS

IMI Inkjet Academy has been attended by over 3,000 people in the past 18 years. Presented by Mike Willis of Pivotal Resources and Dr Alan Hudd of Alchemie Technology, the course covers all the basics of inkjet technology.

Understanding the basics is essential to any industry's development. The Inkjet Academy covers the basic theory behind the many types of inkjet technology used today and aims to give your understanding of the industry an expert start or update.

At the Inkjet Academy you'll learn how printheads work, the materials used in their fabrication and the theory of their operation. You'll also find out about how inks are formulated and used, as well as ink supply and support systems and much more.

The course is designed to provide useful background information for anyone entering the inkjet industry, seeking an update on today's technology or looking for further fields of development.

TUESDAY, FEBRUARY 6, 2018

8:00 a.m. Registration
8:30 a.m. Opening Session

Introduction

- Types of inkjet technology
- Drop on demand technologies
- Thermal and piezo inkjet
- Evolution of inkjet markets
- Inkjet patents

Inkjet ink technologies

- Ink types: aqueous, solvent, oil, phase change & UV cure
- Dyes & pigments
- Inkjet ink formulations

Drop production

- Thermal inkjet
- Piezo inkjet
- Continuous inkjet
- Bulk piezo
- SiMEMS/TFP
- Deposition requirements
- Drop ejection frequency
- Crosstalk
- Reliability
- Life issues

12:00 noon Networking Lunch
1:00 p.m. Session 2

Inkjet inks

- Inkjet ink design
- Understanding the inkjet printing process
- Drop formation
- Properties influencing piezo inkjet ink performance
- Testing inks for reliability: methods & characterization

Drops in flight

- Drop placement accuracy
- Drop break-off
- Drop impact and spread
- Mist control

Inkjet ink materials and dispersions

- Range of materials and ink chemistries
- Evolution of inkjet inks
- Evolution of dyes
- Pigments and dispersion technology
- Dispersion theory
- Polymers and additives
- Processes and manufacturing

System design issues

- Ink supply
- Nozzle maintenance

6:00 p.m. Networking Reception

WEDNESDAY, FEBRUARY 7, 2018

8:30 a.m. Session 3

Substrates and interactions

- Papers and coated papers
- Films, rigid substrates
- Bleed and intercolor bleed
- Pre and post coatings
- Adhesion
- Requirements versus applications
- Drying
- UV curable materials
- Monomers & oligomers
- Photoinitiators
- UV & e-beam curing

Print & image quality

- Factors affecting print quality
- Printhead-ink-substrate
- Greyscale methods
- Drop detection
- Banding, single pass issues
- Drying effects
- Missing nozzle detection & compensation

Inkjet Applications

- Coding, marking, mailing, addressing
- Wide format graphics
- Industrial decoration - décor & laminates
- Ceramic tiles
- Textiles
- Commercial printing
- Labels & packaging
- Printed electronics, bio-medical & 3D printing

Emerging Technologies

- Kodak Stream
- Memjet
- HP PageWide technology
- Landa Nanography
- Lead-free piezo
- Speed & resolution trends

12:00 Noon Adjournment

DIGITAL PRINT CONFERENCES 2018

Digital Packaging Security Printing Understanding Inkjet Ink

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**Register for one Digital Print Conference
Attend any sessions and receive copies of conference materials from
ALL 3 concurrent conference programs**

STRATEGIC ADVISORY BOARD

The Strategic Advisory Board of industry luminaries, whose expertise covers a wide range of technology and applications in digital printing, will determine the conference program of topics and presentations. The Strategic Advisory Board members are as follows:



Nick Cooper
Director
Luminescence



Stephen Emery
VP Ink Business
New Business
Development
EFI



Lawrence Gamblin
President
Kao Collins



George Gibson
Director of
Technology Scouting
Xerox



Thomas Richard Poe, Sr.
Retired Director of
Business Development
**Angstrom
Technologies**



Richard H. Ward, CFC, CSP
Principal &
Managing Partner
**Buena Vista
Resources**



Alrick V. Warner
Research Fellow
**The Procter &
Gamble Company**

NETWORKING

The Digital Print Conferences 2018 give you the opportunity to meet senior executives from within the digital printing industry as well as from companies supplying materials, using the technologies and developing new applications. With a networking reception, a lunch and additional refreshment breaks, there is ample opportunity to meet with key people.

DISPLAYS & SUPPLIERS FORUMS

Digital packaging, security printing, and inkjet ink products and technologies will be on display in the break/reception area and the Suppliers Forums within each Digital Print Conference enables you to hear short presentations on participating companies and their latest news

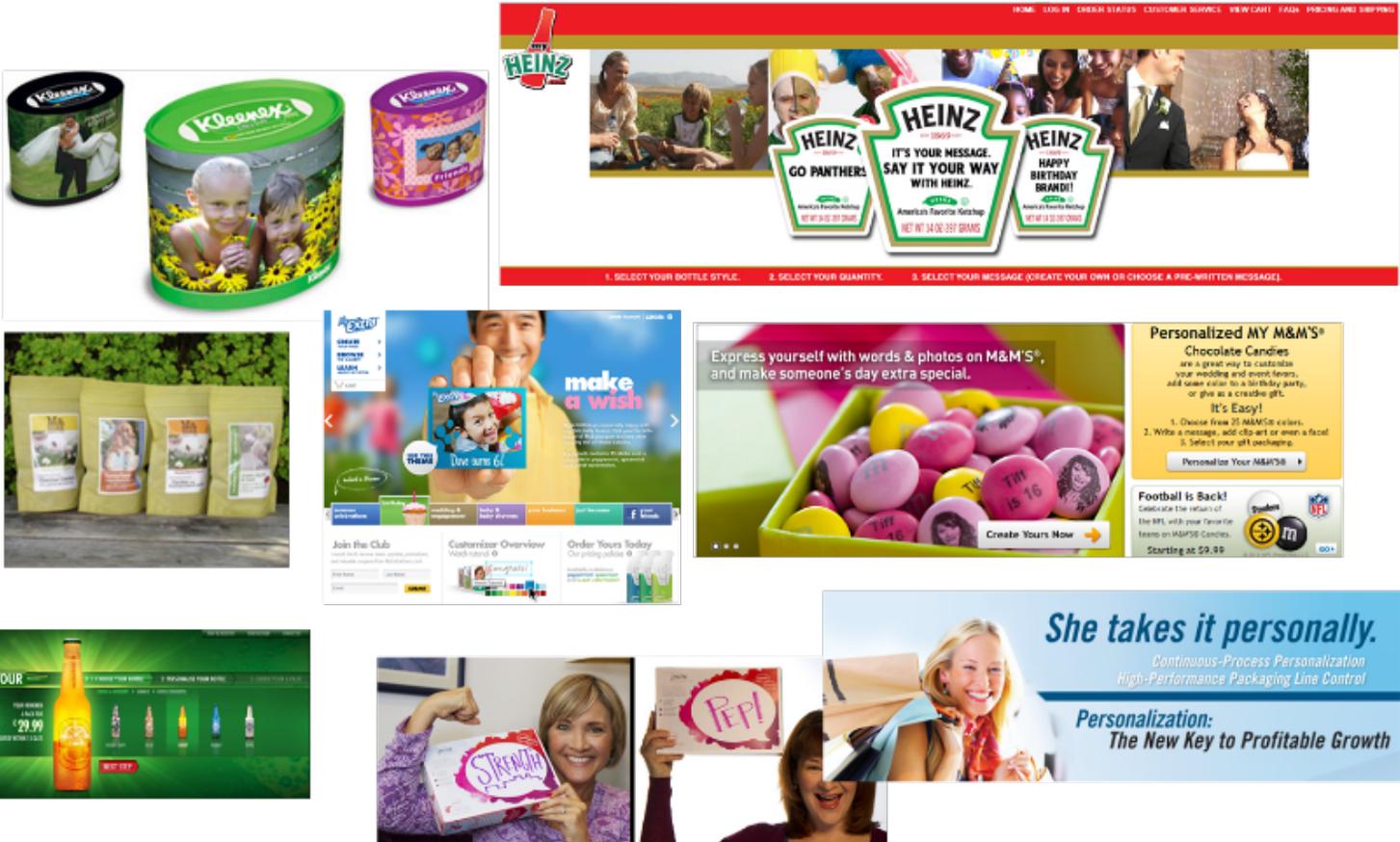
IT STRATEGIES MARKET REPORT

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Digital Packaging Conference 2018

FEBRUARY 6-7, 2018

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CONFERENCE FOCUS

Packaging currently makes up ~43% of the \$901B commercial print market and with nearly 50% of packaging production jobs under 10,000 run length; it is clear that the future of packaging is digital, interactive and increasingly intelligent.

Chaired and led by George Gibson, Director Technology Scouting at Xerox, IMI's Digital Packaging Conference 2018 is designed to provide comprehensive coverage of numerous factors, technologies, enablers & barriers, challenges, and most of all – Opportunities – that are combining to create Future Packaging! George will present much of the background and status based on his successful Future of Packaging course.

Many factors are driving digitization of packaging. Beverage firm's use of limited-edition, seasonal beverages alone is projected to grow by \$3B from 2015 to 2017. While the market is producing increasing variety; technology is also providing increased capabilities. Higher image quality, greater substrate range, lower costs, etc. plus incorporation of new capabilities (printed electronics, sensors, taggants and much more) are making entirely new packages possible.

"Much more than just the stuff the stuff comes in"

Packaging is becoming so much more than just the stuff the stuff comes in. Brand owners increasingly view packaging as a way to directly engage their consumers. Great new packages serve as a bridge between the consumer and the brand owner in a way previously interrupted by the distribution chain. In some of the best recent designs the package becomes a fundamental part of the value proposition for the product itself. Packaging also takes on some of the big issues of our day: enhancing consumer safety, reducing environmental impact, reducing food/materials waste, providing personalized beneficial data and much more!

The IMI Digital Packaging Conference 2018 addresses the challenges, options, and opportunities associated with future packaging requirements, technology choices, drivers & barriers, and other issues required to effectively implement packaging innovations. This strategic conference for the packaging industry provides high value information for senior executives, commercial managers, development teams and end users covering the most recent innovations, trends, and issues critical to continued growth and expansion of digital packaging applications and markets.

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Digital Packaging Conference 2018

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8:30 a.m. Opening Session

WELCOME & INTRODUCTIONS

Alvin G. Keene, President
IMI

CONFERENCE CHAIR:

George Gibson
Xerox Corporation

DIGITAL IS THE FUTURE OF PACKAGING

George Gibson, Director
Technology Scouting, Webster,
New York



- Packaging joins the expanding digital age that surrounds us!
 - Communication
 - Entertainment
 - IoT
 - Financial
- Digital packaging markets
 - Domains & definitions
 - Current market structure & size
 - Growth projections
 - Market trends
- The digital packaging proposition
 - What digital adds to the value proposition
 - Design, printing & other infrastructure requirements
 - Drivers, enablers & barriers to digital adoption

12:00 p.m. Networking Luncheon

1:30 p.m. Session 2

MEETING THE NEEDS OF PACKAGING MARKET SEGMENTS WITH A MODULAR INKJET PLATFORM

Gianluigi Rankin, Director
Product Marketing, Memjet, San
Diego, California



- Requirements & challenges for inkjet in packaging segments
 - Labels
 - Corrugated
 - Folding carton
 - Flexible packaging
- How the new Memjet modular DuraLink platform can help meet segment requirements
- New printhead & pigment ink are the key new technologies
- Integrated systems approach with all components for
 - High productivity
 - High quality inkjet system
- Benefits to OEMs
 - Fast integration
 - Reduced effort

MORE WITH LESS: HOW TO PROFIT WITH AUTOMATED WORKFLOWS

Mark Abramson, Founder & CEO,
Printform Corporation, Sausalito,
California



- How do you turn faster print speeds into breakthrough profitability?
- Shop floor experiences: more units per shift with fewer employees by embracing
 - Completely automated workflows
 - Advanced image processing
 - Leveraging what manufacturers know & own
- Actionable lessons & key takeaways
- Avoiding the pitfalls
- Successfully automating highest value processes while eliminating production bottlenecks & inefficiencies
- Packaging case study

SMART PACKAGING STATUS & ROLE IN FUTURE PACKAGING

George Gibson, Director
Technology Scouting, Webster,
New York



- The smart packaging proposition
 - What smart packaging adds to the value proposition
 - Drivers, enablers & barriers to adoption
- Smart/Intelligent Packaging Markets
- Smart Packaging Technologies & Products
 - Visual Passive Sensors
 - Electronic Passive Sensors
 - Active Sensors
 - Sensor Meshes
 - The Package's Role in Big Data and Analytics
- Importance & Role of Sensor Development & Proliferation
- Commonly Referenced Smart Packaging Categories
- Status, Trends & Opportunities in Smart Packaging
- Role of Printed Electronics

SUPPLIERS FORUM: 5-Minute presentations related to technology, capabilities, services, new product introductions, etc. The Suppliers Forum is open to all conference registrants. For additional information or to sign up, contact Al Keene al@imiconf.com or check off box on registration form.

6:00 p.m. Networking reception in display area

WEDNESDAY, FEBRUARY 7, 2018

8:30 a.m. Session 3

DIGITAL PACKAGING STATUS, CURRENT TECHNOLOGIES, TRENDS, & OPPORTUNITIES

George Gibson, Director
Technology Scouting, Webster,
New York



- Case coding
- Labels
- Folding cartons
- Corrugated
- Flexible packaging
- Direct product decoration
- Unique requirements/opportunities: Pharma, food, security, etc.
- Developing your "future packaging strategy"

DIGITAL PACKAGING PRINTER DEVELOPMENT: IS THE INDUSTRY APPROACH BACKWARDS?

Marco Boer, Vice President,
IT Strategies, Hanover,
Massachusetts



- Product development approach
- Market eligibility approach
- Technology challenges
- Market entry options
- Application volume & momentum
 - Labels
 - Folding cartons
 - Corrugated
 - Flexible film
- Packaging: one of few markets guaranteed to grow

12:00 p.m. Conference Adjournment

Security Printing Conference 2018

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Common products that have been counterfeited



Toothpaste



Drugs



Auto parts



Cigarettes

CONFERENCE FOCUS

With the rapid advancements in all aspects of security printing technologies and features; the international focus on improved security; and the accelerated demand for product/document/ID protection - it is all the more important to keep up to date to maximize your participation, success, and profitability in the security printing industry.

IMI's Security Printing Conference 2018 addresses the challenges, options, and opportunities associated with security requirements, technology choices, materials selection, safety, and other issues required to effectively protect products and documents. This strategic conference for the security printing industry provides high value information for senior executives, commercial managers, development teams and end users covering the most recent innovations, trends, and issues critical to continued growth and expansion of security printing applications and markets.

This one and one-half day event includes the following elements:

- Market opportunity briefings (pharma labels, food labels/packaging/IDs/ documents/etc)
- Updates and views from industry pacesetters
- Perspectives from key end users
- New technology introductions from printing & security materials innovators

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WELCOME & INTRODUCTIONS

Alvin G. Keene, President, IMI, Carrabassett Valley, Maine

CONFERENCE CO-CHAIRS

Thomas R. Poe, Independent Consultant (Retired Angstrom Technologies)

Richard H. Ward,

Buena Vista Resources

SECURITY PRINTING IN PERSPECTIVE

Thomas R. Poe, Independent Consultant, Covert & Overt Pigments/Inks/ Secure Document Coatings (Retired Director of Business Development, Angstrom Technologies), Walton, Kentucky



- What is security printing & why are we interested?
- Traditional & emerging security printing applications
- Protecting against product alteration & counterfeiting
- Technology & compliance trends
- Security printing economics – what are the costs & who pays?
- Conference highlights

A FORENSIC PERSPECTIVE: MAXIMIZING SECURITY VALUE USING DESIGN

Tyra S. McConnell, Forensic Document Examiner, U.S. State Department, Washington, DC



- Counterfeit deterrence is not just a function of security feature selection
- Use of technology in security environments vs. commercial environments
- Assessing the value of security feature technologies based on how they are used
- Security technologies: checkbox or design opportunity?
- The public availability of security feature technology
 - What counterfeiters can access
 - How to maximize the security feature using design

Security Printing Conference 2018

FEBRUARY 6-7, 2018

DEVELOPMENT OF DRAFT ANSI/NASPO STANDARD: MINIMUM SECURITY REQUIREMENTS FOR US CERTIFICATES OF BIRTH

Richard H. Ward, CFC, CSP,
Principal & Managing Member,
Buena Vista Resources LLC,
Buena Vista, Colorado



- Need for Identity Verification Standards
- Initiatives & Challenges
- Draft ANSI/NASPO standard
 - Scope
 - Stakeholders
 - Progress & Timeline

ADDRESSING THE DATA ENABLED WORLD

Jim Keller, VP Global Product Development, OpSec Security, Lancaster, Pennsylvania



- Internet of things (IoT)
 - Impacts by 2020
 - How security & authentication will change
- Security printing
 - Digital driven unique identifiers (UID's)
 - Feature richness
 - Mobile authentication
- Solutions in complex supply chains
 - Authentication at all touch points
 - Software interfaces
- Mobile devices
 - Validation & Enforcement
- Customer engagement

12:00 p.m. Networking Luncheon

1:30 p.m. Session 2

BRAND PROTECTION – SECURING THE SUPPLY CHAIN: A MULTI-LAYERED APPROACH

Robert Sherwood, CPP, VP Security Programs Management, Veritrace Inc., Harrison, Ohio



- Labels & packaging among top 10 counterfeited products
- Allows counterfeit/adulterated products into supply chain
- Anti-counterfeit & smart technologies is security multiplier
- Benefits multiple stakeholders
- What a comprehensive approach looks like
- Challenges to implementing comprehensive approach & how to overcome
- Connected labeling programs across the supply chain
- Anti-counterfeit technology highlight
- Learn how technologies work together providing multiple benefits
- Keeping implementation simple but effective

HOW QR CODES & NFC-BASED SOLUTIONS PROTECT BRANDS & DRIVE CONSUMER ENGAGEMENT IN ASIA

Alfons Futterer, Managing Director, NanoMatriX International, Wanchai, Hong Kong



- How QR codes are used & why it works so well in Asia
 - QR codes changes way of life in China
 - Hidden security risks & concerns
 - Why companies use smart QR code rather than static QR codes
 - Secured codes as key part of brand protection solution
- NFC solution is on the rise: How to protect brands & engage consumers
 - Recent trend of using NFC-based smart phone in Asia
 - Unique NFC tags with magnificent highly secured features
 - Innovative possibilities in next generation
 - Growing number of applications on wide range of products
 - Higher flexibility & usability than QR codes
- Smart brand protection & consumer engagement strategies to support data driven decisions

OPTIMIZING THE SECURITY & DURABILITY OF ID CARDS

Max Astor, Senior Account Manager, TESLIN® Substrate Products, PPG Industries, Monroeville, Pennsylvania



- Necessities for secure credential ID card
 - Ultra-durable in harsh environments
 - Ultra-secure
 - Secondarily – it has to be cool (aesthetics)
- How to deliver these requirements

FORENSIC TAGGANTS, INK, & MARKING SYSTEMS RISE UP TO AUTHENTICATE TRACK & TRACE SYSTEMS IN COMPLETE SUPPLY CHAIN SYSTEM

Wendell Smith, President, Polestar LTD, Enfield, New Hampshire



- Forensic DNA markings add true authentication: birth to end user
- DNA marker authentication process
- Cell phone as authenticator give same power to end user & every step in logistics chain – by unique code identifier
- A new paradigm?
- Integrated enterprise-wide approach
- Art Guard™ system – fine art protection
- Leveraging the power of genetic code to combat counterfeiting

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WEDNESDAY, FEBRUARY 7, 2018

8:30 a.m. Session 3

UV/IR FLUORESCENT PIGMENTS: QA/QC TOOLS & METHODS TO ENSURE CONSISTENT PERFORMANCE

Dr. Ravi Adhikari, Director of Chemical Operations, Angstrom Technologies, Florence, Kentucky



- Introduction: Covert/UV/IR fluorescent pigments
- Importance in securing documents
- Consequence of inconsistency of pigments in application
- QA/QC tools (optical & non-optical) & methods to ensure quality

INNOVATIONS IN SECURITY INKS & THREADS FOR DOCUMENT PROTECTION

Nick Cooper, Director, Luminescence, Princeton, New Jersey



- Use of invisible RGB links to produce full color under UV for all documents
- New innovations for possible adoption in future documents
- Use of Invisible RGB Inks to produce full color under UV
- Rainbow multicolored stitching thread
- Affirm Inkjet Ink for covert encoding/verification: documents and brand protection
- New UV Flashlight enabling previously impossible UV features, including Fire & Ice Offset Ink (suitable for highly secure documents)

UNIQUE OVERT & COVERT ANTI-COUNTERFEITING ELEMENTS FOR SECURITY PRINTING INDUSTRY

George Perkous, CEO, Holoptica, Belmont, California



- Continuing value & advantages of unique holograms & new holographic features
- Value of DNA marking & instant authentication
- Security document track & trace system based on holoQR lot security document verification based on docVAULT
- Advances in new PRODUC high security paper

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Understanding Inkjet Ink Conference 2018

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CONFERENCE FOCUS

The inkjet industry has made extensive ink technology improvements to enable new applications and markets. And many industry pundits consider additional inkjet ink formulation and chemistry developments the most critical elements for the inkjet industry's continued application diversification and market growth.

IMI's Understanding Inkjet Ink Conference 2018 is designed to provide an update and understanding of recent developments in inkjet raw materials, processing, curing/drying, manufacturing, hardware innovations, etc. that have driven ink innovations. The program will also address application and performance requirements needing improvements and innovations to foster continued inkjet expansion driven by ink technologies.

Topics to be covered include dyes, pigments, resins, polymers, photoinitiators, dispersions, additives, etc. as well as processing techniques, curing/drying technologies, etc. required for successful inkjet ink systems.

- Technology briefings from leading experts
- Updates and views from industry pacesetters
- Challenges and drivers for inkjet ink technology
- Innovation opportunities for the inkjet ink industry

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Stephen Emery
EFI

Lawrence Gamblin
Kao Collins

CONFERENCE SPEAKERS

Dr. Rich Baker
Integrity Industrial Ink Jet Integration

Daisuke Hamada
Kao Collins

Yair Kipman
ImageXpert

Brad Liggett
Buhler

Lisa Clapp
Sun Chemical

Adam Tourville
Avery Dennison Digital Ink Solutions

Dr. Ray A. Work, III
Work Associates

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KEY CHALLENGES FOR INKJET INK

Stephen Emery, VP Ink Business, New Business Development, EFI, Meredith, New Hampshire



- Trends: Replacing higher volume analog inks, water base inks, applications
- Tradeoffs: Adhesion, elongation, flexibility, fade resistance, weathering, health & Safety, one ink set does not fit all...
- Environmental impact: Supply chain/China, regulatory compliance, curing technology benefits
- System issues: Design to application, media absorbency, media handling/transport, printheads, ink chemistry - which is more critical?

UNDERSTANDING INKJET INK: TRENDS & CHALLENGES AFFECTING THE INK INDUSTRY

Adam Tourville, Account Manager, Avery Dennison Digital Ink Solutions, Mentor, Ohio



- What is inkjet ink?
- Types of inkjet ink
- Inkjet ink trends
- Challenges in inkjet inks
- Opportunities for growth
- The future

TRANSITIONING PIGMENT, PIGMENT DISPERSIONS, & INKS FROM CONVENTIONAL PRINTING TO DIGITAL

Lisa Clapp, Vice President of Colors Technology, Sun Chemical



- Reasons for shift to digital
- Technical requirements for pigments, dispersions, & inks Jetting, color, fit for use (regulatory, etc.)
- Brand identity & protection
- Alternate technologies

ADDITIONAL PRESENTATIONS TBA

12:00 p.m. Networking Luncheon

1:30 p.m. Session 2

PRODUCTION CONCEPT OF MACROMEDIA WITH MICROMEDIA PROCESS FOR DIGITAL INK APPLICATIONS

Brad Liggett, Head of Technology, Advanced Materials Division, Buhler, Mahwah, New Jersey



- Typical hurdles for digital ink processing
- MacroMedia technical data
- Effect of MacroMedia on particle size
- MacroMedia/MicroMedia process module
- Control options & features for the process module

JETTING & PRINT QUALITY ANALYSIS

Yair Kipman, President, ImageXpert, Nashua, New Hampshire



- Introduction to drop analysis
- How is in-flight analysis used: Drop formation, reliability, misting, nozzle-to-nozzle consistency, drop measurement
- Simple application examples
- Overview of techniques
- Fundamental measurements
- Introduction to print quality analysis
- How is print quality analysis used: Dot properties, line properties, solid area quality, color registration, ink interaction
- How is in-flight analysis used: Drop formation, reliability, misting, nozzle-to-nozzle consistency, drop measurement
- Practical examples

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ECO-FRIENDLY INKJET INK SOLUTION FOR FLEXIBLE PACKAGING

Daisuke Hamada, Executive Vice President (R&D) Kao Collins, Cincinnati, Ohio



- Market demand shifts due to society diversification
 - Small lot production
 - Short delivery time
 - Increased safety & eco-friendliness requirements (especially food packaging)
- Environmentally friendly inkjet flexible packaging contributes
 - High added value product solution
 - Sustainability of society
- Introduction of
 - Electron beam cured inkjet ink solution
 - Water based ink for non-absorptive substrates
- Role of pigment dispersion on water based inkjet ink

DEVELOPMENTS IN GEL & WATER BASED LED UV INKJET INKS

Dr. Ray A. Work, III, President, Work Associates, Bradenton, Florida



- Canon & Xerox gel ink challenges & performance advantages
- SunJet, EFI & Durst programs in water based UV inks
- Comparisons with conventional UV LED inks
- Matching ink & process to applications
- Implementation examples
- Potential for the future

INK CONSIDERATIONS IN HARDWARE & SYSTEM DESIGN

Dr. Rich Baker, President, Integrity Industrial Ink Jet Integration, West Lebanon, New Hampshire



- Inks and substrates: Wetting, drying, adhesion, image quality, settling/aging, etc.
- Fluid selection/formulation; General properties, Functionality, rheology, substrate prep, curing/drying, surface energy & surface tension
- Inkjet ink challenges – often need process development
 - Drying in nozzle vs. drying on substrate
 - Particle settling
 - Low viscosity – Formulation limitations & drop control
 - Ink/surface optimization
- Fluidic design considerations: meniscus pressure, dynamic pressures (motion & G-forces, ink refill, recirculation, back pressure), degas, flow resistance
- Real world examples of ink system management
- Interesting new chemistries: Hot melt inks, nano particle metal inks, carbon inks, enzymes/anti-bodies, active pharmaceutical and more

12:00 p.m. Conference Adjournment

IMI INKJET PRINTING CONFERENCE 2018

February 7-9, 2018



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CONFERENCE FOCUS

With the rapid technology developments, applications expansion, and increasing market potential - it is all the more important for you to keep up to date to maximize your participation, success, and profitability in the inkjet industry.

IMI's Inkjet Printing Conference 2018 is the flagship strategic conference for the inkjet industry, trusted as a primary source of high value information by senior executives and commercial managers for more than 25 years. The program addresses the most recent innovations, trends, and issues critical to continued adoption, growth, and expansion of Inkjet printing applications and markets.

STRATEGIC ADVISORY BOARD

The Strategic Advisory Board of industry luminaries, whose expertise covers a wide range of technology and applications in digital printing, will determine the conference program of topics and presentations. The Strategic Advisory Board members are as follows:



Martin Schoeppler
President & CEO
Fujifilm Dimatix



John Law
Managing Director
Advanced Materials
Sun Chemical



Marco Boer
Vice President
IT Strategies



Paul Morgavi
Chief Technology Officer
Ink Jet and Novel Printing
Xerox



Mike Willis
Managing Director
Pivotal Resources

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February 7-9, 2018

Over 22 hours of presentations & networking over 3 days!

WEDNESDAY, FEBRUARY 7, 2018

11:00 a.m. Conference Registration

1:30 p.m. Opening Session

WELCOME & INTRODUCTIONS

Alvin G. Keene, President, IMI, Carrabassett Valley, Maine



Conference Chair; Mike Willis, Managing Director, Pivotal Resources, Cambridge, UK



THE PACE OF CHANGE: WHAT DIGITAL PRINT INNOVATIONS MEAN FOR COMMERCIAL PRINTERS

Marco Boer, Vice President, I.T. Strategies, Hanover, Massachusetts



- Commercial offset print volumes going down-some faster than anticipated
- Digital printed pages growing at double digit rates
- Margin pressures increasing for digital print
- When properly deployed, new digital print enhancements
 - Allow printers to break cycle of declining margins
 - Create new opportunities in color book printing, catalogs, magazines, direct mail, and package printing – the “Holy Grail” for print
- Can commercial printers also participate in industrial print markets?

IT STRATEGIES MARKET REPORT

All participants will receive a free copy of the latest “The Numbers” Market Report by IT Strategies. Generated from their worldwide digital printing industry model, it provides an ongoing source of market information based on a consistent methodology and reporting structure.

“NEW” BUYERS & MASS PERSONALIZATION DRIVES FURTHER AUTOMATION

Nachum Korman, VP & GM North America, Landa Digital Printing, Atlanta, Georgia



- “New” buyers want products specific to their needs
- They want them quickly & have less brand loyalty
- Everything becomes
 - On-demand: communication, gaming, & entertainment
 - More personalized: knowledge, news, & advertising
 - Greener & safer: 60% of consumers want to buy from environmentally responsible companies
- Key differentiators
 - Product proliferation
 - On-demand production
 - Mass customization
- Brands, content owners & printing industry are responding to these unique trends & opportunities
- Digital printing plays critical part in creating fully automated end-to-end solution
- Landa – the driving force of digital printing within these advanced automated ecosystems
- Progress with our technology solutions

2018-2020: TIME TO GO AHEAD WITH DIGITAL PACKAGING PRODUCTION

Montserrat Peidr , Senior Vice President – Head of Digital Print Business Unit, Heidelberger Druckmaschinen, Wiesloch, Germany



- Automated collection & analysis of user data show customer approach has become more segment-orientated
- Variation of products is almost exploding
 - Strong impact on shorter runs
 - Faster production cycles
- The question is no longer if digital is the answer for packaging printing
 - How to build a profitable business with it
 - Which technology to select strategically
 - What to take into account to succeed
- How will Heidelberg’s Primefire technology solutions play in this market?

HYBRID INKJET: DRIVES FLEXIBILITY & DIFFERENTIATION PRINT

Gray Falconbridge, CEO & Taylor Buckthorpe, Director of Sales & Marketing, Colordyne, Brookfield, Wisconsin



- End user viewpoint on investing in inkjet
- Balancing consumer demand & technology advancement
- Augment existing print production with inkjet
- Opportunity for inkjet in the narrow web label & packaging markets



“FLYWHEEL EFFECT” AS IT RELATES TO INKJET INDUSTRY GROWTH

Lawrence Gamblin, President, Kao Collins Inc., Cincinnati, Ohio



- What is the flywheel effect?
 - Analysis of related interactions driving growth
 - What’s necessary to accelerate growth?
- Application of flywheel effect to high speed inkjet printing
- Implications for inkjet industry
- How does this apply in the real world?

SUPPLIERS FORUM SESSION 1

5-Minute presentations related to technology, capabilities, services, new product introductions, etc. Led off by Sponsors, the Suppliers Forum is open to all conference registrants (Session 1 on Wednesday & Session 2 on Thursday). For additional information or to sign up, contact Al Keene al@imiconf.com or check off box on on-line registration form.

7:00 p.m. Networking Reception in Display Area

Program continues on next page



Register on-line at www.imiconf.com

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THURSDAY, FEBRUARY 8, 2018

8:30 a.m. Session 2

MEMS INKJET PRINTHEADS – ADDRESSING THE NEEDS OF THE PRINT INDUSTRY

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



- MEMS Concepts and technology
- MEMS advantages
 - Accuracy/resolution/consistency
 - Speed
 - Reliability/longevity
 - Scalability
 - Ink compatibility: graphic & functional
- MEMS implementation at Fujifilm Dimatix: Samba, GMA
- Actual performance using Samba
- What MEMS holds for the future of inkjet printing

ADOPTION OF THIN FILM PZT SI MEMS INKJET PRINTHEADS IN INDUSTRIAL APPLICATIONS: THE XAAR 5601 SOLUTION

Ramon Borrell, Chief Technology Officer, Xaar, Cambridge, UK



- Thin film PZT Si MEMS printheads used for several years in office and commercial printing
 - Now carving their way into industrial sectors
- Industrial inkjet applications benefit from some of the new capabilities of the technology
 - High resolution
 - Compactness
 - Very high print quality
- But Si MEMS manufacturing process imposes new restrictions on the size and shape of actuators
 - Industrial inkjet requirements pose serious challenges to printhead design
- The Xaar 5601 has addressed the challenges in a number of ways
 - Novel architecture and design solutions
 - Alignment and calibration methods
 - Formulation and structure of the PZT elements
- Result is a robust, reliable, affordable, easy to install, compact, productive solution

CONTINUING EXPANSION OF THERMAL INKJET PERFORMANCE TO DRIVE NEW HIGH-VALUE APPLICATIONS

David J. Murphy, WW Director of Marketing & Bus Dev, HP PageWide Industrial, Hewlett Packard, San Diego, California



Presentation outline to follow

BREAKING BOUNDARIES IN PRODUCTION INKJET PRINTING TO REVOLUTIONIZE HIGH-END, HIGH-VALUE COMMERCIAL PRINT MARKET

Guy Broadhurst, Vice President, Technology and Client Solutions, Canon Solutions America, Boca Raton, Florida



- Ongoing market adoption of production inkjet for direct mail, transactional, and book/publishing applications
- Inkjet is now poised to overtake toner-based & conventional print in many applications
- Océ ProStream is first print engine to provide
 - completely variable content
 - shorter runs at commercial print quality
 - high productivity on a wide range of uncoated, inkjet-optimized and offset-coated media
- How to get ahead of the curve with new business opportunities
- Preview of future inkjet technology developments & trends

Register on-line at www.imiconf.com

12:00 p.m. Networking Luncheon

Program continues on next page

- 20 presentations from industry leaders
- Our unique Suppliers Forum open to participants to present your company and services
- Free table-top display space if pre-booked
- Industry market report from IT Strategies
- Ample time for networking at our inclusive receptions and lunch



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THURSDAY, FEBRUARY 8, 2018

1:30 p.m. Session 3

A SYSTEMS APPROACH TO INTEGRATING DIGITAL INKJET: MEMJET'S DURALINK SYSTEM

Tom Roetker, VP Engineering, Memjet, San Diego, California



- Systems approach assures that high quality is achieved
- The Memjet DuraLink platform offers a flexible systems inkjet design
- A new printhead & pigment ink are the key new technologies
- Memjet's new technology platform offers OEMs
 - Fast integration
 - Reduced effort
- Integrated systems approach with all the components for
 - High productivity
 - High quality inkjet system
- Final product has robustness & reliability needed for commercial printing
- Benefits to OEMs & end users

MEDIA HANDLING TRENDS FOR A PRINT ON DEMAND WORLD

Dr. John L. Kuta, President & CEO, BDT Print Media North America, Oakville, Ontario, Canada



- Opportunities
- Three current trends in digital print industry
 - Integrated & automated job processing solutions
 - Proliferation of media types
 - Need for highly reliable printer operation
- Overview of current media handling technologies
- Case Study: Reasons why feeding fails or becomes unreliable
- Business examples with financial impact

PRINTED FLEXIBLE ELECTRONICS

Jason Marsh, Director of Technology, Nextflex, San Jose, California



- Opportunities
- Digital manufacturing process flow
- Applications: sensors, interconnects, smart tags/RFID, wearable textiles
- Implications for inkjet
- Challenges

PRINTED ELECTRONICS: WHEN WILL IT BE READY FOR PRIMETIME? WHAT NEEDS TO HAPPEN?

Karl Dueland, VP/GM Digital Manufacturing, Xerox, Webster, New York



- The collision of information & matter
- 'Printing' is the easy part
- Printed electronics challenges
- Real world implementations
- Reality of where printed electronics are today
- What progress is required for broader implementation, usage, & value creation?

THE SCIENCE OF ESTIMATING INK

Dan Beery, VP of Product Strategy, Solimar Systems, San Diego, California



- Ink is a significant cost component
- Estimating ink usage & costs is difficult – but provide important metrics for business operation
 - The science behind Solimar's ink estimation & consumption solution
- How it provides
 - Pre-flight file analysis for estimating
 - Automated monitoring
 - Production work reporting

SUPPLIERS FORUM SESSION 2

7:00 p.m. Networking Reception in Display Area



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FRIDAY, FEBRUARY 9, 2018

8:30 a.m. Session 4

SOFTWARE – THE KEY TO UNLOCKING IMAGE QUALITY AND ACCESSING NEW APPLICATIONS?

Debbie Thorp, Business Development Director, Global Inkjet Systems, Cambridge, UK



- Taking stock of inkjet post-Drupa
- Image enhancement technologies
- Challenges of adding finishing in-line
- The next dimension in direct to shape printing

TECHNOLOGICAL ADVANCES IN 3D PRINTING – VOXEL-SCALE DESIGN AND ENGINEERING

James W. Stasiak, Distinguished Technologist, 3D Materials & Advanced Applications Lab, Hewlett Packard, Corvallis, Oregon



- Brief tour of 3D printing & additive manufacturing technologies
 - Fused deposition modeling
 - Selective laser sintering
 - Stereolithography
- Technology focus: HP's jet fusion technology
- Form, fit & function – printing functional 3D objects
 - The transition from two- to three-dimensions
 - Functional materials
 - The extensibility of 2D printed electronics & methods
- Voxel-scale design and engineering
 - Nanomaterials, self-assembly & functional 3D printing
 - The emergence of "digital materials science"
 - Applications & opportunities

DIGITAL PRINTING FOR HEALTHCARE SOLUTIONS

Dr. Alan L. Hudd, Chairman & Co-founder, Alchemie Technology, Cambridge, UK



Alchemie Technology won "Great Innovations Award" - InPrint 2016, November 2016, Milan, Italy

- Macroscopic trends for healthcare applications
- Vision for digital technologies in healthcare
- Technologies for selectively dispensing liquids & powders
- Braillejet opportunities: requirements & technology proposition
- 3D printing of customized medicine
 - Requirements & technology proposition
 - Progress & fast track to clinical trials
- Other potential applications

CHANGING THE WORLD OF FLOORING

Craig Greenwood, Regional Business Unit Director, TIGER Drylac USA, St. Charles, Illinois



- Digital inkjet is changing how companies manufacture, & distribute flooring
- Markets: wood, LVT, concrete, & composites
- Durability, Quality
- UV resistance
- Affordability
- Choices for today's buyers

STARLIGHT 3000FHE – ADVANCED DIGITAL MANUFACTURING SYSTEMS FOR FLEXIBLE HYBRID ELECTRONICS

Peter Hessney, President, Sensor Films, Rochester, New York



Sensor Films won "2017 Tech-Connect Innovation Award" - May 2017 TechConnect World Innovation Conference & Expo, Washington, DC AND "2016 FLEXI Innovation Award" - March 2016 FlexTech Alliance Conference & Trade Show, Monterey, California

- High throughput prototyping & production platform with:
 - Benefits of digital workflow
 - Performance of miniaturized semiconductor components
 - Fully-automated process to digitally deposit functional & decorative materials on wide range of flexible substrates
- Starlight enables rapid industrial printing with
 - In-line photonic sintering & UV curing
 - Followed by automated surface mounting of discrete semi-conductor components & device encapsulation
- Enables rapid & efficient production of flexible hybrid electronics for broad range of high demand applications



INKJET PRINTING BEYOND COLOR - TOWARDS INDUSTRIAL FABRICATION OF LAYER STACKS ON NON-FLAT SURFACES

Prof. Dr. Reinhard R. Baumann, Digital Printing and Imaging Technology, Technische Universität Chemnitz, Germany



- Printers have gained competences enabling them to extend scope to applications, addressing functionalities beyond color
- Printing stacks of layers having the functionalities
 - insulation
 - conductivity
 - semi-conductivity
- 4 layer patterns can be manufactured which results in active electric circuitry
- Choosing the digital inkjet technology,
 - individualization of the appropriate products becomes reality
 - enables the manufacturer to go for inline quality improvement techniques
 - Even on non-flat surfaces
- Opportunities, challenges and limitations of manufacturing systems for the industrialization of printing smart objects at small batch sizes

1:00 p.m. Adjournment

UPCOMING IMI CONFERENCES

IMI EUROPE INKJET WINTER WORKSHOP 2018

22 – 26 January 2018
Valencia, Spain

INKJET ACADEMY

Theory Of Inkjet Technology
Mon 22 - Tue 23 January 2018

SINGLE PASS INKJET SYSTEM DESIGN

High Speed Inkjet System Design And Process Development
Mon 22 - Tue 23 January 2018

INKJET INK CHARACTERISATION

Viscosity, Dispersions, Jetting & Surfaces
Wed 24 - Thu 25 January 2018

INKJET PRINTING SOFTWARE

Printheads, Images And Colour
Wed 24 - Thu 25 January 2018

INKJET INK MANUFACTURING

Manufacturing Inks For Performance & Reliability
Thu 25 - Fri 26 January, 2018

FUNCTIONAL MATERIAL DEPOSITION

Manufacturing Inks For Performance & Reliability
Thu 25 - Fri 26 January, 2018

IMI EUROPE INKJET DEVELOPMENT CONFERENCE 2018

17-18 April 2018
Frankfurt, Germany

IMI EUROPE INKJET SUMMER SCHOOL 2018

11-15 June 2018
Ghent, Belgium

IMI EUROPE DIGITAL PRINT EUROPE 2018

Autumn, Date & Location TBD

Latest information at:

www.imieurope.com & www.imiconf.com



REGISTRATION FEES

DIGITAL PRINT CONFERENCES	INK JET ACADEMY COURSE	IMI INKJET PRINTING CONFERENCE
<ul style="list-style-type: none"> • One registration for all three concurrent conferences • Electronic copy of the conference materials • One lunch • One reception • Coffee breaks <p>\$1,095</p>	<ul style="list-style-type: none"> • Attendance at all sessions • Course reference binder & pdf presentations • One lunch • One reception • Coffee breaks <p>\$1,095</p>	<ul style="list-style-type: none"> • Attendance at all sessions • Electronic copy of the conference materials • One lunch • Two receptions • Coffee breaks <p>\$1,095</p>

\$995 for each additional registrant from same company when registered as a group, or for same registrant to a second conference.

BOOKING POLICY

Cancellations will receive a 100% refund if made 96 hours prior to the start of the program. Substitutions may be made at any time. Cancellations made less than 96 hours prior to the start of the conference will not receive a refund, but will receive an electronic copy of the conference materials.

HOW TO REGISTER

Please register on-line via our web site: www.imiconf.com or call +1-207-235-2225.

Hotel reservations are the responsibility of each meeting registrant.

Early booking is advised as the special meeting rate of \$155 for single or double occupancy is guaranteed only until January 15, 2018

LOCATION & HOTEL INFORMATION

All IMI Digital Print Week programs are being held at the Hilton San Diego Mission Valley in San Diego, California. Hotel reservations are the responsibility of each meeting registrant. Early booking is advised as the special meeting rate of \$155 for single or double occupancy is guaranteed only until January 15, 2018. After that date, the group meeting rate will be on a space available basis.

Located in the center of 'America's Finest City,' the Hilton San Diego Mission Valley hotel is 5 miles from downtown San Diego and San Diego International Airport. Indulge in great amenities including comfortable rooms and suites with relaxing walk-in showers and an inviting pool. The hotel provides excellent access for dining and premier attractions.

To make reservations online, go to : <http://tinyurl.com/IMISDHILTON>

The Hilton San Diego Mission Valley address is:
901 Camino del Rio South
San Diego, CA 92108 USA

To make reservations by phone, call 1-800-682-6099 OR +1-619-543-9000 and ask for Central Reservations (State that you are with "Information Management Institute" to receive group rate).

Phone: +1-619-543-9000
Fax: +1-619-543-9358
Web Site: www.hiltonmv.com



SAN DIEGO INTERNATIONAL AIRPORT

San Diego International Airport's over 25 airlines service about 50,000 passengers per day. Located about 5 miles from the Hilton San Diego Mission Valley, it is only about a 15-minute drive.

Complimentary shuttle service is being provided by the Hilton San Diego Mission Valley via advance reservation with Super Shuttle. To reserve your complimentary roundtrip airport transportation, go to:

<http://www.supershuttle.com/default.aspx?GC=M5SP7>

