

20th Annual THERMAL PRINTING CONFERENCE

Connecting with New Technologies, Applications & End User Trends

May 11-13, 2009

Radisson Resort Orlando - Celebration
Kissimmee (Orlando), Florida

***New, in-depth 20th Anniversary conference agenda:
Latest worldwide industry survey results
Suppliers, channels, competitive challenges, world trends
Connecting with new technologies, applications & end- user trends***

2009 marks the **20th anniversary** of IMI's thermal printing conference. To celebrate this milestone we are planning the most comprehensive thermal industry coverage ever. Key worldwide thermal market sectors will be reviewed from supplier, channel sales and end-user perspectives. New competitive advances in ink jet and electrophotography will be covered in depth. 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 slow down will cap off a very comprehensive conference

Specific topics include the following:

- Direct thermal trends and application dynamics
- Advances in thermal transfer products and applications
- Photographic quality printing
- Thermal printheads
- PDA based application platforms
- Relevant wireless communications trends
- Mobile printing
- RFID chips and fabrications for smart labels
- Item level RFID tracking and printable electronics
- ID, brand protection and document security
- Impact of new capabilities in ink jet and electrophotography

As a mature technology, thermal printheads and media are highly refined, distribution channels are well established and thermal printing continues to dominate its primary markets. In spite of its maturity thermal printing continues to grow although current economic conditions have impacted that growth. This year's conference will provide in depth, strategic insight into all aspects of thermal printing from a supplier, channel sales and end user perspective. Don't miss it!

IMI's **20th Annual Thermal Printing Conference** novel format is designed to gain insights into the opportunities and challenges of exploiting world markets and capitalizing on the many new and exciting information, communications and media related innovations. Historically these trends have impacted thermal printing more than progress in competing technologies such as ink jet and electrophotography. Come and explore ways in which camera phones, mobile computing and wireless advancements can mold the future usage of the unique and resilient technology known as thermal printing.

IMI's **20th Annual Thermal Printing Conference** program combines a diverse group of speakers that includes new, innovative information and communication products, consumer, business and industrial end-user trends and thermal industry experts. The format is designed to connect industry participants with systems and end-user product innovations and prepare thermal printing industry participants for future challenges and opportunities. It is also an ideal training format for new personnel.



Register Now at
www.imiconf.com
Call +1-207-235-2225
Fax +1-207-235-2226
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Conference General Chairman
Harold Schofield, Schofield Imaging Associates

Monday, May 11, 2009

12:00 Noon Conference Registration

1:30 p.m. Opening Session
Global Thermal Printing Industry

Welcome & Introductions

[Alvin G. Keene, President, Information Management Institute, Inc., Carrabassett Valley, Maine](#)

STATE-OF-THE INDUSTRY ADDRESS & COMPREHENSIVE WORLDWIDE THERMAL PRINTING SURVEY

[Harold Schofield, Schofield Imaging Associates, Narragansett, Rhode Island](#)

- Conference Overview
- Industry Update For 2009
- Results of New Worldwide Thermal Printing Survey
 - Revenues
 - Growth
 - Competition by Market Segment
- Technology Update For 2009
 - Printheads & Media
 - Impact of Communications Trends & Related Technologies
 - Products & Systems
- Supply Chain Trends
 - OEM vs. Aftermarket Sales
 - Emerging Markets
- Competitive Outlook
 - Advancements in Ink Jet & Electrophotography
 - Soft Displays vs. Hard Copy
- Future Trends

UPDATE ON MOBILE POS & THERMAL PRINTING

[Endre D. Vargha, Vice President Research & Engineering, Datamax-O'Neil, Irvine, California](#)

- Evolution of Mobile POS Applications
- Market Drivers
- New Developments
- Market Size & Trends
- Color Applications
- Print or Not to Print? That is THE Question
- Smart Card vs. Magnetic Stripe Card
- Security Issues
- Future Outlook

ADVANCES IN THERMAL IMAGING

[Dr. Daniel J. Harrison, Sr. Vice President Research and Development & Group Manager, IIMAK Fluid Inks, International Imaging Materials, Inc. Amherst, New York](#)

- Thermal Transfer Printing
 - High Speed Flexible Packaging Printing
 - Enhanced Super Premium Ribbons
 - Broad Latitude GP Wax
- Printed Electronics: Metallograph Conductive Thermal Transfer Ribbons
 - Flexible Circuits
 - Membrane Keyboard
 - RFID Antennas
- Security Printing
 - Invisible Code Printing
 - DNA Markers in TT Ribbon
 - Covert TTR Taggant Systems
 - Joint Taggant Systems (Ribbon & Receiver) for Enhanced Security
- Direct Thermal
 - Opaque & Transparent Films
 - TOF: Super Premium Direct Thermal

SECURE PRINTING WITH DNA

[Dr. James A. Hayward, Chairman, President & CEO, Applied DNA Sciences, Stony Brook, New York](#)

- The Impact of Toxic Supply Chain
 - Loss of Revenue
 - Product Recalls
 - Compromised Warrantees
- Putting DNA to Work
 - DNA in Commercial Thermal Transfer Applications including Time & Date Sensitive Documents
 - "Green" Technology will not alter Quality of Printed Materials
 - Can be incorporated into existing Printing & Manufacturing Processes
 - Compatible with any Ink, Substrate or Security Device
 - Layered Solutions: Overt, Covert or Forensic
- Applied DNA Sciences
 - Patented Botanical DNA Solution
 - Authentication Thru-out Supply Chain
 - Enhance Safeguarding of Retailers & Manufacturers
 - Empowering Consumers, Corporations & Governments

5:30 p.m. Networking Reception

Conference Displays & Suppliers' Forum

IMI's 20th Annual Thermal Printing Conference provides 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.

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 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 check off the box indicating your participation OR complete the registration form on next page and fax to +1-207-235-2226 OR send an email to al@imiconf.com



The Radisson Resort Orlando-Celebration address is

Radisson Resort Orlando-Celebration
2900 Parkway Boulevard
Kissimmee, Florida 34747
Phone: +1-407-396-7000
Fax: +1-407-396-4577
www.radisson.com/kissimmeefl

Tuesday, May 12, 2009

7:30 a.m. Continental Breakfast

8:30 a.m. Session 2

Printheads Drive New Applications

PRINTHEAD SELECTION FOR COST/ PERFORMANCE OPTIMIZATION

Harold Schofield, Schofield Imaging Associates, Narragansett, Rhode Island

- Review of Printhead Basics
- Application Selection Criteria
- Design Trade-offs vs. Requirements
 - Bar Codes
 - Portability
 - Photos & Images
 - Industrial vs. Retail & Commercial Usage
 - Cards & Tags vs. Paper Printing
- Speed & Resolution vs. MTBF
- Matching Printheads & Media

SEGMENTED THERMAL PRINTHEAD

Jiro Oi, Director, HIT Devices, US Office, Brentwood, Tennessee

- What is a Segmented Thermal Printhead?
- Product Background & What is New?
- Why do we Need Another Type of Printhead?
- What are the Advantages (and Disadvantages) over the Line/Serial Printhead?
- Potential Applications

ADVANCED THERMAL PRINTHEAD TECHNOLOGIES FOR HIGH SPEED PRINTING

Tadashi Yamamoto, Senior Design Engineer, Printhead Section, Rohm Semiconductor USA, LLC, San Diego, California

- Thermal Printers Seeking Advanced Technologies to Compete Against other Print Methods
- Enhancing Print Speed, Reliability & Small Size
- Introduction of Technologies Especially for High Speed Printing
- Rewritable Printer

NEW GENERATION OF THERMAL PRINTHEAD

Hidekazu (Henry) Akamatsu, Manager of Application Engineering, Thermal Printhead Division, Kyocera Corporation, Kagoshima, Japan

- Applications covered by Kyocera Printhead
- Barcode Printer Application
 - EcoGeneration Printhead
 - Super High Speed Printhead
- Card Printer Application
- Super High Density Printhead

12:00 Noon Luncheon

1:30 p.m. Session 3

Printheads Drive New Applications-cont

THERMAL PRINTING: TOSHIBA'S PLANS FOR THE FUTURE

Nobuhiro Ooshima, Chief Technology Officer, Toshiba Hokuto Electronics Corporation, Hokkaido, Japan

IntelliSEAQ PRINTHEAD TECHNOLOGY BENEFITS USERS

Kenneth Colonel, VP Research & Engineering Orlando, Datamax-O'Neil, Orlando, Florida

- IntelliSEAQ (Intelligent Sequential Energy Adjustment for Quality) Technology
- Advanced Printhead Control & Extensive Reporting Capabilities
- Enables Precise Printhead Control & Monitoring to Provide
 - Optimal Print Quality
 - Extended Printhead Life
- Monitors, Adjusts & Controls Essential Printhead Functions
- Optimizing Printhead Life & Maintenance
- Active Printhead Management Provides Minimized Downtime, Decreased Administrative Costs & Reduction in Total Cost of Ownership
- Product Implementations

3:30 p.m. Session 4

Thermal Printing & RFID

APPLICATIONS THAT MERGE THERMAL PRINTING & RFID

Elaine A. Bresnick, Consultant, Newton, Massachusetts

- Airline Bag Tags
 - Application Details from ARINC, SITA, perhaps other SIs
 - Thermal Printers that Integrate RFID
- In-Vehicle Asset Tracking
 - Ford/DeWalt/ThingMagic Project
 - MSP Examples (Tagging DVRs, Routers, etc.)
 - Requirements for Barcode + RFID
- Patient Management
 - Wristbands with Barcode + RFID
 - Tracking Patients Whereabouts
 - Newborns & Alzheimers Patients
- Future of Barcode + RFID
 - Advantages/Disadvantages
 - Enduring Combination or Transition from One to the Other?

Suppliers' Forum

The Suppliers' Forum, a popular component of IMI conferences, features five minute presentations related to technology, capabilities, services, new product introductions, etc. The Suppliers' Forum is open to all conference registrants.

5:30 p.m. Networking Reception

Wednesday, May 13, 2009

7:30 a.m. Continental Breakfast

8:30 a.m. Session 5

Media Drives New Applications

DIRECT THERMAL PRESSURE SENSITIVE MEDIA TRENDS

Steve Allard, Product Manager, FLEXcon, Spencer, Massachusetts

- Direct Thermal Film Performance Characteristics
- Application Developments & Requirements
- How to Select Appropriate Direct Thermal Products for your Application
- Trends in Direct Thermal Media

THERMAL PRINTING FOR 21ST CENTURY MANUFACTURING

Dr. James Williams, Founder & Chairman, Polyonics Inc., Westmoreland New Hampshire

- Thermal Transfer has provided Manufacturers with Automatic Identification through Barcode Label Technologies
- Barcode has become Integral Part of Manufacturing Process providing Increased Productivity, Better Inventory Management, Improved Quality, etc.
- Applications Displaying the Robust Nature of Thermal Transfer Printing
- New Applications in Product Authentication
- Thermal Transfer's Advantages over other Digital Printing Technologies as part of Brand Protection Program
- Product Security Technologies & Anticipated Role of Thermal Printing

INTEGRATING POLYMER STRUCTURES WITH THERMAL PRINTING

Richard Kwinta, Product Development Engineer, ITW Covid Security Group Inc., Cranbury, New Jersey

- Polymer & Chemistry Advances have led to Polymeric Layers & Security Structures which can be applied with Thermal Printheads
- Enables Matching Printed Variable Data with Thermally Applied Structures
- Applicable to Papers & Polymers

SELECTION & QUALIFICATION OF THERMAL TRANSFER MEDIA

Michelle M. Ostiguy, Product Manager, Product Identification Business Team, FLEXcon, Spencer, Massachusetts

- FLEXcon Introduction
- Lab Testing Equipment to Develop & Screen Thermal Transfer Products
- How to Select Appropriate Thermal Transfer Products for your Application
- Trends in Thermal Transfer Media

12:00 Noon

Adjournment

REGISTRATION INFORMATION

Registration Fee: \$1095 per registrant per program
\$995 for each additional registrant from same company to same program
or for same registrant to second program when registered as a group.



The registration fee includes attendance at all sessions and scheduled breakfasts, lunch, receptions, coffee breaks plus the conference reference binder and 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 conference will be charged a \$300 cancellation fee but will receive a copy of the complete conference binder and CD.

To register for IMI's **20th Annual Thermal Printing Conference** 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 visiting our web site www.imiconf.com

REGISTRATION FORM

20th Annual Thermal Printing Conference
May 11-13, 2009

[Check here to reserve a free display space.](#)

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I Want to Pay by Credit Card Please Invoice Me

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.

Radisson Resort Orlando-Celebration Information

IMI's **20th Annual Thermal Printing Conference** is being held at Radisson Resort Orlando-Celebration located in Kissimmee, Florida. Hotel reservations are the responsibility of each meeting registrant. **Early booking is advised** as the reduced rate is guaranteed only until April 20, 2009. Phone +1-800-333-3333 (Radisson Central Reservations) or +1-407-396-7000 (Hotel direct) and reference "THERMA" to receive the special group rate of \$89 (including resort service fee) for single or double occupancy. **To make reservations online** - go to hotel website

www.radisson.com/kissimmeefl and

1. Select your desired arrival and departure dates and hit "Go" which will take you to the next page
2. Fill in "THERMA" in the "Promotional Code" field under "Search for Special Rates" and then hit "Search" which will take you to the IMI Rates where you can make your selection and complete the reservation process. *NOTE: IMI Rate includes \$10 daily resort fee*

The Radisson Resort Orlando – Celebration is located on 20 acres of beautiful tropically landscaped grounds just 1.5 miles from Walt Disney World Resort. Guests can unwind at a giant free-form swimming pool with waterfalls and a water slide. The Radisson Resort Orlando - Celebration also offers another heated pool, a kids' wading pool, lighted tennis courts, sand-based volleyball, a playground, a game room, jogging areas and a fitness center. In addition, the Radisson Resort Orlando - Celebration provides shuttle service to Disney World, Sea World and Universal Studios.

Adjacent to Radisson Resort Orlando - Celebration is Celebration Golf Club, an 18 hole championship caliber course designed by Robert Trent Jones, Sr. and Jr. and located within the natural wetland environment.

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

12th Toner & Toner Chemicals Conference

May 4-6, 2009

2nd Digital Printing Presses - The Next Era Conference

May 6-8, 2009

Crowne Plaza San Marcos Resort
Chandler (Phoenix), Arizona, USA

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Ink Jet Technology Showcase 2009

June 2-3, 2009

Ink Jet Academy: Theory of Ink Jet Technology

June 4-5, 2009

Swissotel - Zurich, Switzerland

Ink Jet Academy: Practice of Ink Jet Technology

June 15-18, 2009

Letchworth, Hertfordshire, UK

Visit www.imiconf.com
for updated program information and
and to Register Now Online

Digital Printing Summer Camp 2009

Ink Jet Academy: Theory of Ink Jet Technology

July 27-28, 2009

Surface Tension, Wetting & Capillarity

July 29-30, 2009

Color & Color Management

July 30-31, 2009

Managing Product Development for Value

July 30-31, 2009

Sugarloaf Hotel - Carrabassett Valley, Maine, USA

Ink Jet Academy: Practice of Ink Jet Technology

October 19-22, 2009

Letchworth, Hertfordshire, UK

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

Ink Jet Academy: Theory of Ink Jet Technology

February 1-2, 2010

19th Annual Ink Jet Printing Conference

February 3-5, 2010

Crowne Plaza San Marcos Resort
Chandler (Phoenix), Arizona, USA