



Rapid advancements in all aspects of security printing and security features plus the international focus on all aspects of security in today's world have created a rapidly growing demand for physical, document and identification security. Advancements in digital printing and technologies for incorporating security features, while spawning new modalities and efficiencies for security printing, have also enabled counterfeiters as well as legitimate issuers. From brand protection and secure access to ID's, tickets, travel documents, etc. - physical and digitally printed security images, features and data are converging in ways never before imagined. This convergence of once separate technologies is creating both challenges and market opportunities for effective integration of digital printing with physical security devices in a wide range of market specific applications.

IMI's **5th Annual Security Printing Conference** will address the challenges and opportunities in dealing with security issues and enabling brand protection for products and production of secure documents for a wide variety of applications including business documents, ID's, currency, gaming/event tickets, travel documents, etc. Industry experts will address digital printing technologies' capabilities and shortcomings relative to printing secure output and the technology options available to enhance the production of secure documents and devices of all types. The conference program will provide a critical assessment of forensic analysis requirements, enhanced ink and media systems, document traceability technologies, software solutions and other potential avenues to enhance product and document security.

This unique conference is designed to educate and inform industry leaders and technologists at all levels in the supply chain of security printing of the difficulties and business opportunities for combining digital and physical security printing on an application specific basis. If your business or products' future is dependent on finding effective ways to utilize physical features and digital security printing, or finding cost effective methods to stay ahead of counterfeiting, tampering and forgery, you will benefit from attending this conference.

Don't miss this opportunity for digital printing technologists, security agency personnel, security organizations, hardware vendors, consumables suppliers, converters, component/software suppliers and end users to communicate and address product and document security issues.

Conference Displays & Suppliers' Forum

IMI's **5th Annual Security 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 above and fax to +1-207-235-2226 OR send an email to al@imiconf.com

Conference Speakers

Chair: Harold Schofield, Schofield Imaging Associates

Gary Andrechak, Hitachi America

Chris Brown, InkSure Technologies

Dr. Peter Crean, Xerox

Roland Fournier, L-1 Identity Solutions

Peter D. Gabriele, ARmark Authentication Tech

Lorie Gottesman, FBI Laboratory

John T. Halotek, ITW Covid Security Group

Dr. James Hayward, Applied DNA Sciences

Dr. Alan L. Hudd, Xenica Technology

Tom Jay, SICPA

Travis D. Johnson, Int'l Anticounterfeiting Coalition

Vivek Khandelwal, Verayo

David J. Phillips, Axess Technologies

Robert Sherwood, Sekuworks

Wendell M. Smith, Technology Transfer Group

Richard H. Ward, Appleton

Dr. James Williams, Polyonics

Garth Zambory, JDSU

Joel Zlotnick, ICE Forensic Document Lab



5th Annual Security Printing Conference

November 17-19, 2008



Tremont Plaza Hotel
Baltimore, Maryland

Monday, November 17, 2008

11:00 a.m. Conference Registration

1:00 p.m. Session 1
Security Printing – Why Are We Interested?

WELCOME AND INTRODUCTIONS

Alvin G. Keene, President, Information Management Institute, Inc., Carrabassett Valley, Maine
Conference Chairman:
Harold Schofield, Schofield Imaging Associates, Narragansett, Rhode Island

SECURITY PRINTING IN PERSPECTIVE

Harold Schofield, Schofield Imaging Associates, Narragansett, Rhode Island

- Security Printing Industry Overview & Development
- Transition To Digital Printing Of Documents
- Protecting Against Alteration & Counterfeiting
- Trends & Technology For Digital Document Security
- Security Market Perspective
- Security Printing Economics: What Are The Costs & Who Pays?
- Conference Highlights

OVERVIEW OF BRAND PROTECTION MARKETS & STRATEGIES

David J. Phillips, U.S. Representative, Axess Technologies, Boston, Massachusetts

- Extent to which Brands are Counterfeited & Illegally Diverted
- Trends in Different Markets
- Strategy to Assist Brand Owners in Product Protection

BUSINESS IMPACT OF COUNTERFEITING

Travis D. Johnson, Vice President – Legislative Affairs and Policy, The International AntiCounterfeiting Coalition, Washington, DC

- IACC & It's Role in Anti-counterfeiting Efforts
- Economic, Public Health & Safety impacts of Counterfeiting
- Legislative & Industry Efforts & Initiatives
- Working Together to Create Solutions

BRAND PROTECTION AS A PART OF SUPPLY CHAIN MANAGEMENT

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

- Integrated Brand Protection Concept
- Supply Chain Tracking Model
- Enterprise Track & Trace Systems
- Multi Level Solutions: Partnerships & Coalitions Required for Success
- Technology Options Reviewed
- Employing Novel Emerging Technologies: The Forensic Taggant-DNA; DNA Steganography; Unique Fluorescent Dyes; Structural Magnetics; Color Shift Inks; Thermal Transfer & Ink Jet Printing Solutions & MUCH MORE
- Case Studies: Sydney 2000 and Vancouver 2010 & Many More
- Vision of Future Brand Protection Solutions

LABELS: MULTIVARIATE TOOL FOR PRODUCT AUTHENTICATION

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

- Plethora of Technologies Available
 - Recognized that there is No "Silver Bullet"
 - Issues of Cost & Delivery
 - Issue of Change
- Paradigm of Pressure Sensitive Label as Robust "Delivery System" to Unequivocally Identify Product as Legitimate
 - Variety of Authentication Technological Choices for each "Layer"
 - Concepts for Interfacial Interactions between layers as added Product Authentication Dimension
- Strategic Approach with "Layers" of Support for Success
 - Detection
 - Extension
 - Communication & Data
 - Chain of Custody
- Label Structure Provides Layers for Delivery Systems
 - Take a Fresh Look at Label Construction
 - Opportunities for Detection regardless of Corporate Philosophy
 - Thieves are Imaginative...so are Security Label Folks
 - Think like a Thief...but we have the Advantage of Surprise

PRACTICAL IMPLEMENTATION OF REAL ID ACT

Roland Fournier, Senior Product Line Manager, L-1 Identity Solutions, Secure Credentialing Division, Burlington, Massachusetts

- Brief History of the Act & where we are Today (Including Federal Grants to States)
- Material & Full Compliance Rules set forth by Dept. of Homeland Security (DHS)
- Impact of Drivers License/ID Issuance Processes & Solutions Available
 - Front Office (Identification of Applicants, Data Capture, Enrollment)
 - Back Office (Verification Requirements, Information Management Techniques)
 - Credentials/Card Security Features & Card Production Techniques
 - Security Plan & Privacy Considerations
- Real ID Issues & Benefits

INTEGRATION OF Mu-CHIP INTO SUCCESSFUL SYSTEMS

Gary Andrechak, RFID Product Manager, Security Solutions Group, Hitachi America, Ltd., Brisbane, California

- Mu-chip Basics
- Target Markets: Authentication, Traceability, Work-in-Progress
- Core Mu-chip Solution Components: Mu-chip inlets & Tags, Readers, Reader Network Middleware & Evaluation Kits
- Demonstrations in IMI Conferene Badges at Reception

6:00 p.m.

Reception

Tuesday, November 18, 2008

7:30 a.m. Continental Breakfast

8:30 a.m. Session 2
Security Printing Issues & Options

PRINTING SECURE DOCUMENTS ON DIGITAL PRINTERS

Dr. Peter Crean, Senior Fellow, Xerox Innovation Group, Xerox Research Center, Webster, New York

- Color & Monochrome Printers now print "Secure Features" similar to those being made on Offset Presses with Special Inks & Materials
- Using Intimate Knowledge of specific Printer Families & their RIPs - Programmable Gloss, IR and UV Features, Microtext & other Features can be Printed at Full Engine Speed on Unmodified Engines
- Ability to Generate Unique Features for each Document and to Link Security Features to the Document Content Offer Level of Protection Not Found in Traditional Security Printing

FUTURE OF SECURITY PRINTING: SigNature™ DNA - Definitive, Non-Invasive and Authentic

Dr. James A. Hayward, Chairman, President & CEO, Applied DNA Sciences, Stony Brook, New York

- SigNature™ DNA Markers offer Tested System to Protect & Authenticate Products Vulnerable to Counterfeiting, Fraud, Piracy & Product Diversion
- Unique DNA Sequences derived from Plants, Encrypted & Embedded into Host of Different Media or Placed Directly onto Products
- Accurate, Cost Effective & Versatile: Work with Existing Printing & Manufacturing Processes
- DNA can be Embedded into Virtually any Ink, Varnish or Adhesive
- Cannot be Copied, Digitally Reproduced, Replicated or Re-engineered
- DNA Provides Definitive, Forensic Chain of Evidence
- Instant Detection of our DNA Mark in the Field can be Confirmed with Forensic Analysis in our Laboratories

MICRO ENCAPSULATION SYSTEMS FOR BRAND SECURITY

Richard H. Ward, CFC, Senior Business Development Manager, Appleton – Security Products, Appleton, Wisconsin

- Technologies for Using Microencapsulation
- Improving Chemical Dispersion & Protection
- Adding the Element of Authentication & Verification

To Register Online

Visit

www.imiconf.com



Wednesday, November 19, 2008

7:30 a.m. Continental Breakfast

8:30 a.m. Session 4
Do New Security Printing Techniques Offer Economically Viable Solutions?

UNCLONABLE RFID CHIPS FOR SECURITY & ANTI-COUNTERFEITING APPLICATIONS

[Vivek Khandelwal, Director of Marketing, Verayo, Inc. Palo Alto, California](#)

- Introduction of a New Class of RFID Chips - "Unclonable" RFID Chips
- Overview of the "Electronic DNA or Fingerprint" Technology behind the Unclonable RFIDs
- Strong & Robust Anti-counterfeiting & Brand Protection - Luxury Goods, Pharmaceuticals, Secure IDs, Access Cards & Documents
- Security Solutions for both the Brick-n-morar and Online Supply Chain

NOVEL OVERT, SEMI OVERT & COVERT SOLUTIONS FOR DOCUMENT SECURITY

[Garth Zambory, Product Line Manager – Document Authentication, JDSU Authentication Solutions Group, Burke, Virginia](#)

- Layering of Existing & Developing Features for Producing Secure Documents for Identity Applications
- Features Encompass Printed, Integrated & Applied Security Features
- Document Security in Ever Evolving Global Marketplace

PRINTABLE SECURITY INK TECHNOLOGIES FOR SECURE DOCUMENTS & ID CARD APPLICATIONS

[Tom Jay, Vice President, Sales & Marketing, SICPA Securink Corporation, Springfield, Virginia](#)

- Growing Need for Security InkPrinting Applications
- Diversity of Features Available on Market Today
- Why Multiple Layers of Protection Make for more Secure Solutions
- Document & Card Security Case Studies

ADVANCING DOCUMENT SECURITY WITH POLYMER SCIENCE

[John D. Halotek, Director of Marketing & Sales, ITW Covid Security Group Inc., Cranbury, New Jersey](#)

- Role of Chemical, Polymer & Optical Technologies in Security Printing
- Successful Applications Require Customized Solutions
- Examples in ID Cards, Travel Documents, Brand Protection & Business Documents

COVERT PROTECTION: IT'S PART OF A BALANCED DEFENSE

[Chris Brown, Sr. VP of Sales, InkSure Technologies, Ft. Lauderdale, Florida](#)

- What is Covert Technology?
- How & Why it Makes Sense to Use with Overt Technologies
- What is Different about InkSure's Covert Technology?
- Primary Applications & Breadth of Uses

COVERT MARKERS FOR PRODUCT AUTHENTICATION

[Peter Gabriele, Technical Director, ARmark Authentication Technologies, LLC, Glen Rock, Pennsylvania](#)

- Authentication of Goods: Critical to Risk Mitigation
- Brand Owner's Question: How Do I Stay Ahead of the Criminal Intent?
- Trust Alone in the Label is a Risk
- Use of Layered Approach to Package Security Combining Multiple Anticounterfeiting Technologies
- Case Studies: Successful Applications using Covert Markers in Packaging & Print Technologies

1:00 p.m. Adjournment

INK JET PRINTING & SECURITY APPLICATIONS

[Dr. Alan L. Hudd, CEO & Hannah O'Brien, OEM Sales Manager, Xennia Technology Ltd., Letchworth, Hertfordshire, UK](#)

- Status of Ink Jet Printing for Covert & Overt Security Applications
- Historically Typical Security Materials have been Difficult to Jet
- New Single Pass Xaar 1001 Printhead Technology Dramatically Increases the Potential for Ink Jet
- Security can be a Value Add to Ink Jet Proposition for Production Line Labeling & Packaging
- Single Pass Label & Packaging Film Production Ink Jet Printing Using Security Materials
- Security Materials Suitable for Ink Jet Ranging from Inorganic Magnetic through Phosphor/ Lanthanide to Electronic Materials
- Outlook For Ink Jet & Security Applications

12:00 Noon Luncheon

1:30 p.m. Session 3
Forensic Analysis Tools, Techniques & Needs

INTAGLIO, SIMPLE PROOF

[Robert Sherwood, CCP, VP Security Programs Management, Sekuworks LLC, Harrison, Ohio](#)

- Authentication:
 - Secure & Recognizable
 - Overt vs. Covert
- The Intaglio Process: Security Printing Process, Unique Print Features & Universal Language
- Value Creation: Authentication, Unique Features, Limited Suppliers & Foreign Governments Care
- Technology Comparison: Visual vs. Tactile
- Applying Intaglio to Labeling
 - Sekuworks Unique Capabilities & The Sekuweb
 - Products: Documents – NBN & Labels/Tapes (Paper, Filmic & Combining Security Technologies)
- Increasing the Value: Unique Coding
 - A Fingerprint
 - Track & Trace (Inventory, Supply Chain, Anti-diversion & Consumer Interaction)
- Great Tools – Use Them Protecting the Supply Chain: Authentication, Investigation & Litigation
- Conclusion: Simple Authentication is Best & Realistic Analysis
- NASPO Activity Update

U.S. IMMIGRATION & CUSTOMS ENFORCEMENT PRINTING INK INITIATIVE

[Joel Zlotnick, Physical Scientist, U.S. Immigration & Customs Enforcement Forensic Document Laboratory, McLean, Virginia](#)

- Overview of Thin-layer Chromatographic Methods for Dye-based Forensic Ink Analysis
- Impact of Industry Image Permanency Trends on Forensic Ink Analysis – Why New Methods are Needed
- Analytical Methods for Pigmented Inkjets, Toners & Impact Process Inks – Research Efforts
- Establishment of U.S. ICE Printing Ink Library & the Need to Work Together with Industry

FORENSIC LAB PERSPECTIVE & CHALLENGES

[Lorie Gottesman, Document Examiner, FBI Laboratory, Quantico, Virginia](#)

- FBI Laboratory Activities
- Forensic Issues for Analog & Digital Printing Technologies
- Tools & Procedures for Examination
- Lines of Detection - From Field to Laboratory
- Challenges & Needs for Document Security

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

5:30 p.m. Reception



All photos courtesy of Baltimore Area Convention & Visitors Bureau

REGISTRATION INFORMATION:

5th Annual Security Printing Conference



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

The registration fee includes attendance at all sessions, all scheduled program functions and the program reference 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 visiting our web site www.imiconf.com

REGISTRATION FORM

5th Annual Security Printing Conference
November 17-19, 2008

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COMPANY _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

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Tremont Plaza Hotel Information

IMI's 5th Annual Security Printing Conference is being held at the Tremont Plaza Hotel in Baltimore, Maryland. Hotel reservations are the responsibility of each meeting registrant. To receive the special meeting rate of \$159 for single or double occupancy, you must call 1-800-TREMONT (800-873-6668) +1-410-727-2222 to make hotel reservations (Group Code is **IMI2008**. **Early booking is advised** as the reduced rate is guaranteed only until October 27, 2008.

To make hotel reservations online, follow these steps:

1. Got to www.1800tremont.com
2. Click on **"RESERVATIONS"** near top left of screen
3. Scroll down to "Group Reservations: For Group Rates at Tremont Plaza, enter your password here" - Click on **"here"**
4. This will open a new window where you will enter Attendee Password **IMI2008**
5. Proceed to fill in requested information and follow instructions to complete your reservation.

The Tremont Plaza Hotel, an all suite hotel, www.1800tremont.com is located in the heart of Baltimore's thriving downtown business and cultural district and only four blocks from Baltimore's famous Inner Harbor, National Aquarium, Science Center plus exciting shopping, dining and historical sites – yet only 10.5 miles from Baltimore-Washington International Airport. Conference sessions will be held in the historic charm and modern convenience of the Tremont Plaza Hotel's newly restored Tremont Grand meeting facilities. Built by the Freemasons as the Grand Lodge of Maryland in 1866, the building was acquired by the Tremont Suite Hotels in 1998 and carefully restored to its original grandeur and reopened as a meeting facility in 2005.

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

- Ink Jet Academy: Theory of Ink Jet Technology**
November 10-11, 2008
UV Ink Jet Printing Course
November 10-11, 2008
- 16th Annual European Ink Jet Printing Conference**
November 12-14, 2008
Sheraton Lisboa Hotel & Spa
Lisbon, Portugal
- Ink Jet Academy: Practice of Ink Jet Technology**
Nov. 17-20, 2008
Letchworth, UK
- Ink Jet Academy: Theory of Ink Jet Technology**
February 2-3, 2009
18th Annual Ink Jet Printing Conference
February 4-6, 2009
Crowne Plaza Mid-Peninsula
Foster City (San Francisco), California
- Ink Jet Technology Supplier Showcase 2009**
European Dates & Location to be Announced

- 12th Annual Toner & Toner Chemicals Conference**
March 16-18, 2009
- 2nd Annual Digital Printing Presses - The Next Era - Conference**
March 18-20, 2009
Crowne Plaza San Marcos Golf Resort
Chandler (Phoenix), Arizona
- 20th Annual Thermal Printing Conference**
May 11-13, 2009
Radisson Orlando Celebration Hotel
Kissimmee (Orlando), Florida
- Digital Printing Summer School 2009**
European Dates & Location to be Announced
- Digital Printing Summer Camp 2009**
July 27-31, 2009
Sugarloaf Mountain Hotel
Carrabassett Valley, Maine, USA

Visit www.imiconf.com
for program and registration details