Security Printing 2016 Conference
May 4-5, 2016

The Florida Hotel & Conference Center
Orlando, Florida, USA

Rapid advancements in all aspects of security printing and security features coupled with the international focus on security in the world today have accelerated the demand for product, document and identification protection. Developments in digital printing and methods to incorporate security features have enabled counterfeiters to mimic legitimate users and brand owners. However, authentication images, features and data are combined in evolving ways to thwart those who wish to deceive. These combinations of once separate technologies have created market opportunities for effective integration of digital printing with physical security features in a broad range of applications.

The challenges of the world economy have made it important to prevent losses associated with counterfeited products, documents, ID's, etc. Companies and agencies are willing to invest in means to prevent fakes, to identify fraudulent products or documents and to recover losses. All end users and security technology providers must continuously seek new solutions in order to protect their products and documents while improving sales and profitability.

IMI's **Security Printing 2016 Conference** addresses the challenges and opportunities with security issues and the evaluation of methods to protect products and documents. This includes a wide variety of applications including business documents, ID's, currency, gaming/event tickets, travel documents and branded products. Industry experts will address the specific role digital printing plays when producing secure docements, packaging and products, including capabilities, limitations, pitfalls and successes.

IMI's **Security Printing 2016 Conference** program provides a critical assessment of forensic analysis requirements, enhanced ink/media systems, document traceability technologies, software solutions and other potential paths 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. If the future of your business or products depends on finding useful ways to apply physical features and digital security printing, or to find cost effective methods to stay ahead of counterfeiting, tampering and forgery, this conference is a must attend event!

Don't miss this excellent opportunity for communication with key players in the field: digital printing technologists, security agency personnel, security organization representatives, hardware vendors, consumables suppliers, converters, component/software suppliers and end users will all meet to address the urgent issue of product and document security.

Conference Displays & Suppliers' Forum

IMI's **Security Printing 2016 Conference** provides the opportunity to have a **complimentary display space** to exhibit your products, technology or services and to give a commercial **5-minute Suppliers' Forum presentation**.

IMI will cooperate with all interested parties to provide appropriate space so products can be displayed and demonstrated during the conference breaks and receptions.

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 page 3 and fax to +1-207-235-2226 OR send an email to **al@imiconf.com**

Make Plans for

Digital Printing Presses 2016 Conference
May 2-3, 2016
The Florida Resort & Conference Center
Orlando, Florida, USA

Thermal Printing 2016 Conference
May 9-11, 2016
Digital Manufacturing 2016 Conference
May 11-13, 2016
The Saguaro Scottsdale Hotel
Scottsdale, Arizona

Security Printing 2016 Conference

- **Brand Protection**
- **Commercial Documents**
  (Tickets, Corporate ID's, Bonds, Contracts, Etc.)
- **Government Issue Documents**
  (ID's, Passports, Licenses, Etc.)

May 4-5, 2016

The Florida Hotel & Conference Center
Orlando, Florida, USA

Wednesday, May 4, 2016

8:00 a.m.   Conference Registration

9:00 a.m.   Opening Session

Welcome & Introductions
Alvin G. Keene, President, Information Management Institute, Inc., Carrabassett Valley, Maine
Conference Chairman: Brian Nicholas, Consultant, Dayton, Ohio

Security Printing Industry Overview, Current Landscape & Developments
Brian Nicholas, Consultant, Dayton, Ohio

Smart Packaging for Brand Protection & Anti-Counterfeiting
George Gibson, Director for Marketing Strategy, PARC, a Xerox Company, Rochester, New York
- Controlling Counterfeiting & Brand Integrity: Who Benefits & Who Pays?
- It's about the System & the Components
- It's an Arms Race: What are the Best Weapons in our Arsenal?
- The Growing Role of Printed Electronics and IoT (Internet of Things)

"Identity Management 4.0"
Alexander Ristic, Senior International Government Manager, Austrian State Printing House, Vienna, Austria
- Is Cost Justification Possible for Security Printing Improvements?
- From Printed Documents to Identity Applications
- How to Increase Security in Government Administration of Printed & Electronic Documents
- Role of Government in Security

12:00 Noon   Networking Luncheon

Conference Chairman:
Brian Nicholas,
Consultant

George Gibson
PARC
A Xerox Company

1:30 p.m.   Session 2

Complete System Development for Upconverting Inks
Dr. Jon J. Kellar, Douglas Fuerstenau Professor, Center Director, Security Printing and Anti-Counterfeiting Technology, South Dakota School of Mines and Technology, Rapid City, South Dakota
- A Complete Upconverting-based Printing System
  - Nanoparticle Synthesis
  - Ink Printing as Covert Markings
  - Smart Phone System Developed to Read & Decode Printed Covert Marks
- Demonstration of How Individual Components are Integrated

Alexander Ristic
Austrian State
Printing House

Optimizing the Security & Durability of Smart Government IDs
Max Astor, Senior Account Manager, TESLIN® Substrate Products, PPG Industries, Monroeville, Pennsylvania
- Global Industry Trends
- Smart Card Types & Substrates
- Factors in Selecting a Smart Card Substrate
- Performance of Various Substrates against Key Selection Factors
- Teslin® Substrate Attributes & Benefits for Smart Government IDs

Incorporating Barcode Authentication Technology into Documents with NO Internet Or Database Required
Gary Parish, President, Complete Inspection Systems Inc., Indialantic, Florida
- Using 2D Barcode Technology to Authenticate Serialized GS1 Barcodes for Track and Trace
- Using Secure 2D Barcodes for UDI and Anti-counterfeiting
- Growth & Limitations of Current 2D Barcodes
- Making HD Barcode a Secure ID Source
- Document/ID Production Process
- Reading and System Requirements & Options
- Application Case Studies

Gary Parish
Complete Inspection
Systems

Joh J. Kellar
South Dakota
School of Mines
and Technology

SUPPLIERS' FORUM: 5-Minute Presentations Related To Technology, Capabilities, Services, New Product Introductions, etc. In combination with having a display, this provides an opportunity to present your technology, products or services to all conference participants. Contact Al Keene al@imiconf.com for information.

5:00 p.m   Networking Reception in Display Area

Alan L. Hudd
Alchemie Technology

Daniel Forte
Quantum
Technology Group

Thursday, May 5, 2016
9:00 a.m.   Session 3

Digitally Selectively Patterning Functional Materials for Brand Protection

Dr. Alan L. Hudd, Director & Founder, Alchemie Technology, Cambridge, UK

- The Juxtaposition of Inkjet Printing Security Materials
- Security Materials Profile
- The Inkjet Challenges & Jetronica Technology
- Range of Materials that can be Digitally Printed
- Opportunities

Novel Security Applications for Non-toxic Quantum Dot Nanoparticles

Daniel Forte, CEO & Founder, Quantum Technology Group, Woburn, Massachusetts

- Quantum Dot Technology Overview
- Manufacturing Methods – Differentiation
- Quantum Dot Properties
- Detection Methodology
  - Equipment Requirements
  - Field & Forensic
- Application Methods: Inks, Lacquers, Paints & Coatings
- Substrates: Paper, Plastic, Laminates, Metal & Glass
- Market Opportunities
- Research: Cyber-Physical Security using Image Processing, Pattern Recognition, Encryption & Encoding Techniques

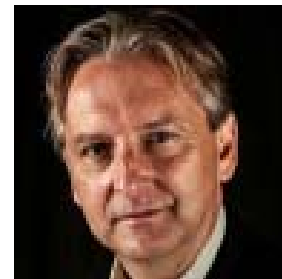## Dendritic Identifiers for Secure Tracking

Dr. Michael N. Kozicki, Idendrix & Arizona State University, Tempe, Arizona & Thor Thomsen, ThroughPoint Solutions, Gilbert, Arizona

- Dendritic Identifier Concept Explained
- Elements are Intricate Branching Structures
  - Singular Set of Minutiae for every Instance of Formation
  - Robust, Unique Metallic
  - Dendrites may be Mass-manufactured Inexpensively
  - Nanoscale facets on Dendrite Surface Introduce another Layer of Complexity & Randomness
- Low Cost Multi-dimensional Unclonability is Unique & Key Benefit
- Pilot Use Case in Agricultural Sector
  - Simple, Easy-to-use Secure Reader & Software Platform
  - Available on Apple, Android & Windows Operating Systems
  - Users may Identify, Track, Audit & Dynamically Report using Physical Identifier Coupled with the Software

Additional Presentation TBA

12:30 p.m.   Networking Luncheon

2:00 p.m.   Adjournment

Michael N. Kozicki
Idendrix & ASU

Thor Thomsen
ThroughPoint Solutions

Visit **www.imiconf.com** for program updates and registration details

Registration Information Security Printing 2016 Conference

Information Management Institute

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

The registration fee includes attendance at all sessions, all scheduled program functions and the program reference materials. 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 program will not receive a refund, but will receive the conference materials.

To register, submit the registration form with payment to Susan Vandrey, 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

☐   **Security Printing 2016 Conference**
     May 4-5, 2016

I wish to reserve a ☐ **Display Space** ☐ **Suppliers' Forum Slot**

NAME _____

JOB TITLE _____

COMPANY _____

ADDRESS _____

CITY _____STATE_____ZIP_____

COUNTRY _____

PHONE _____FAX:_____

EMAIL_____

☐   I Want to Pay by Credit Card   ☐   Please Invoice Me

Florida Hotel & Conference Center

IMI's **Security Printing 2016 Conference** is being held at The Florida Hotel & Conference Center conveniently located 7 miles from Orlando International Airport and adjacent to The Florida Mall. The group rate of $149 per night (including $18 resort fee) is available until April 22, 2016. Reservations can be made online at **http://tinyurl.com/IMIMay2016conf** or by calling +1-407-859-1500 or +1-800-588-4656.

Orlando is served by Orlando International Airport (MCO) with convenient & economical service from destinations around the U.S. and the world. Taxi/shuttle/limousine services are available in the baggage claim area. Group shuttle prices to the hotel are approximately $20 one-way and $32 round trip per person. Taxicabs are approximately $30 to $40 each way.

The Florida Hotel & Conference Center address is:
1500 Sand Lake Road
Orlando, FL 32809
GPS address:8001 S. Orange Blossom Trail
Orlando, FL 32809
Phone: +1-407-859-1500
Fax: +1-407-855-9863

Don't Miss Upcoming IMI & IMI Europe Programs - Visit www.imiconf.com

IMI Europe Inkjet Summer School
June 20-24, 2016
Ink Jet Academy
Fluid Dynamics & Acoustics for Inkjet Printing
June 20-21,, 2016
Digital Textile Printing
Inkjet Ink Characterisation
June 22-23,, 2016
Inkjet Ink Manufacturing
Jetting Functional Fluids
June 23-24,, 2016
Print Media Academy
Heidelberg, Germany

IMI Europe Digital Print Europe
November 28-December 1, 2016
Ink Jet Academy
Additional Course TBA
November 28-29,, 2016
IMI Europe Inkjet Printing Conference
November 29-December 1, 2016
Novotel Amsterdam City
Amsterdam, The Netherlands

Digital Printing Presses 2016 Conference
May 2-3, 2016
Security Printing 2016 Conference
Ink Jet Acdemy
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Thermal Printing 2016 Conference
May 9-11, 2016
3D Printing, Additive Manufacturing & Digital Fabrication Course
May 10-11, 2016
Digital Manufacturing 2016 Conference
Opportunities for Manufacturing Rebirth
May 11-13, 2016
Saguaro Scottsdale Hotel
Scottsdale (Phoenix), Arizona, USA

Ink Jet Technology Showcase 2016
September 7-8, 2016
USA Location TBA

Ink Jet Printing World 2017
Ink Jet Printing 2017 Conference
Ink Jet Academy
1st Quarter 2017
USA Location TBA