



## Digital Print Week 2019

### Digital Print Conferences 2019

Digital Manufacturing Conference 2019 (P2-3)

February 5-6, 2019

Future Packaging Conference 2019 (P4-5)

February 5-6, 2019

Inkjet Academy (P6)

February 5-6, 2019

Inkjet Printing Conference 2019 (P7-9)

February 6-8, 2019

Embassy Suites by Hilton Orlando North  
Altamonte Springs (Orlando), Florida

IMI's **Digital Print Week 2019** features IMI's strategic annual **Inkjet Printing Conference 2019** plus two timely concurrent **Digital Print Conferences 2019** - **Digital Manufacturing Conference 2019** and **Future Packaging Conference 2019** along with learning opportunities at the **Inkjet Academy**. These programs are designed to provide improved understanding of ongoing developments and the ability to capitalize on the business opportunities being generated by inkjet and related digital print technologies' advancements. **If you are interested in speaking opportunities at any Digital Print Week 2019 conferences - contact [al@imiconf.com](mailto:al@imiconf.com)**

IMI's programs are designed to enable attendees to obtain the latest technical, market, and application information while allowing time to network with other attendees in a time and cost efficient manner. Attendance at IMI programs enables attendees to meet with the industry's leading experts in a single location in a short time period maximizing information transfer efficiency and minimizing travel and time expenses.

While conventional printing declines, the transition from an analog to digital world accelerates – which is being reflected in the growth of inkjet/digital applications and opportunities, both within the printing industry and increasingly in manufacturing applications. IMI provides programs and formats to obtain timely updates and understanding of key digital printing related technologies, markets and applications - **keys to your future success**.

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International Exhibition of Print Technology  
for Industrial Manufacturing

9-11 APR 2019 LOUISVILLE, KY



# Digital Print Week 2019

## Digital Print Conferences 2019

### Digital Manufacturing Conference 2019

#### “The Future of Manufacturing”

Embassy Suites by Hilton Orlando North  
Altamonte Springs (Orlando), Florida

**February 5-6, 2019**

Digital design and manufacturing provides the ability to connect different parts of the manufacturing life-cycle through data and to utilize that information to make smarter, more efficient business decisions. Just as digital technologies have reconstituted the entertainment, communications and financial sectors; digital technologies are now in the process of transforming the way parts, components and complete systems are being designed and manufactured. **Digital Manufacturing will revolutionize the American manufacturing industries and is truly the Future of Manufacturing.**

IMI's **Digital Manufacturing Conference 2019** explores current digital manufacturing technologies, ancillary manufacturing infrastructure requirements, application opportunities, challenges, needed improvements to enhance implementation, economics and other factors essential to the growth and expansion of Digital Manufacturing

IMI's **Digital Manufacturing Conference 2019** also addresses the challenges, options, opportunities, and other issues associated with digital manufacturing's growth and implementation. This strategic conference provides high value information for senior executives, commercial managers, development teams and end users covering the most recent innovations, trends, and issues critical to the growth and expansion of digital manufacturing. This one and one-half day event includes the following elements:

- Market opportunity briefings
- Perspectives from manufacturing experts
- Networking lunch, breaks & reception
- Suppliers Forum presentation opportunity
- Updates and views from industry pacesetters
- Technology/infrastructure needs for digital manufacturing implementation
- Complimentary display space
- I.T. Strategies market report

**2 for 1 Registration - One Registration Fee provides access to & all presentations from Digital Manufacturing Conference 2019 and Future Packaging Conference 2019!**

#### Tuesday, February 5, 2019

8:00 a.m. Registration

8:30 a.m. Opening Session

#### Welcome & Introductions

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

Conference Chair: Dr. Simon Kew, VP Technology & Business Development, Alchemie Technology, Cambridge, UK

#### Digital Manufacturing Industry & Market Structure: Now and Future

Dr. Simon Kew, VP Technology & Business Development, Alchemie Technology, Cambridge, UK

- Drivers for digitalization of manufacturing processes
- Consumer trends & growth of e-commerce
- Development of robotics & automation
- Emergence of data-rich supply chains
- Barriers to adoption
- Early adopters: Aerospace, automotive, food, medical, consumer
- Distributed manufacturing concepts & future supply chains
- Quality & regulatory implications
- Development of factories of the future

#### Advanced manufacturing requirements for micro-electronics driven economy

Brett Attaway, Director of Business Development, BRIDG, NeoCity, Florida

- Advanced micro-electronics transforming human interaction
- Growing demand for integrated devices in transportation, homes, medical, etc.
- BRIDG's unique collaboration model
  - Advanced manufacturing development facility
  - Focus on semiconductor-based processes & materials
  - Smart sensors & photonics technologies
- On track to be disruptive force in virtually all industry value chains

12:00 Noon Networking Luncheon

1:30 p.m. Session 2

#### Advances in 3D manufacturing

Dr. Rich Baker Integrity Integration, West Lebanon, New Hampshire

- Overview of 3D printing techniques
- Use of inkjet in 3D printing
- Challenges of quality, speed, and function
- Multi-material, multi-function 3D printing
- Bio tech & pharmaceutical fabrication
- Market directions & future developments

#### Industrial jetting for digital manufacturing

Ken Hillier, North American Sales Manager, Meteor Inkjet, Saeasota, Florida

- Jetting technology poised to exploit wealth of digital manufacturing opportunities - Endless possibilities
- How inkjet's unique features & characteristics can be applied
- Development path for incorporating inkjet technologies in digital manufacturing

- Program continued on next page -



Dr. Simon Kew  
Alchemie Technology



Brett Attaway  
BRIDG



Ken Hillier  
Meteor Inkjet

**Digitally dispensing powders for additive manufacturing applications**  
Dr. Alan L. Hudd, Founder & Director, Alchemie Technology, Cambridge, UK

- Digital technologies for dispensing powders
- Materials suitable for powder dispensing
- 3D post treatment processes
- Current industrial application examples
  - Braillejet
  - 3D printing
  - Decorative metallic finishes for packaging
- Future trends
  - Energy storage
  - Reinforcement of lightweight composites

**Suppliers' Forum:** 5-Minute presentations related to technology, capabilities, services, products Introductions, etc. - open to all.

6:00 p.m. Networking Reception in Display Area

**Wednesday, February 6, 2019**

8:30 a.m. Session 3

**Structuring fluids in 3D space with soft matter 3D printing**  
Christopher S. O'Bryan, Soft Matter Research Lab, University of Florida, Gainesville, Florida

- Jammed granular microgels as sacrificial support for soft matter manufacturing
- Aqueous microgels for colloidal & polymer 3D printing
- 3D printing instabilities
  - Inertial forces & Reynold's
  - Gravitational
  - Thixotropic
  - Interfacial
- Organic microgels for silicone 3D printing
- Applications in biomedical field
  - Mass drug screening
  - Tissue engineering
- Customized silicone implants



Dr. Rich Baker  
Integrity Integrators



Christopher O'Bryan  
Univ of Florida



Arnold Reta  
Jabil

**Advanced digital manufacturing systems for flexible hybrid electronics**

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

- High throughput prototyping & production platform with
  - Benefits of digital workflow
  - Performance of miniaturized semi-conductor 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

**Digital manufacturing for the connected ecosystem**

Arnold Reta, Advanced Technology Engineer-Technology & Innovation Group, Jabil, St. Petersburg, Florida

- Customers/organizations require
  - Product customization & personalization
  - Increased speed of delivery
- Applying technology innovations to meet these trends
- Printed electronics & 3D printing capabilities, requirements, and challenges
- Case studies demonstrating digital manufacturing's role in development and production
- Projected trends

12:00 Noon Adjournment

**Digital Manufacturing Conference 2019  
Strategic Advisory Board**



Peter Hessney  
Sensor Films



Dr. Alan L. Hudd  
Alchemie Technology



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# Digital Print Week 2019

## Digital Print Conferences 2019

### Future Packaging Conference 2019

“Digital, Smart & Sustainable”

Embassy Suites by Hilton Orlando North  
Altamonte Springs (Orlando), Florida

February 5-6, 2019

IMI's **Future Packaging Conference 2019** is designed to provide comprehensive coverage of the numerous factors, technologies, enablers & barriers, challenges, and most of all – OPPORTUNITIES – that are combining to create Future Packaging! 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, smart, and sustainable.**

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.

Led by George Gibson, Managing Partner of Chromis Media and Advisors (and formerly Director of Technology Scouting at Xerox) IMI's **Future Packaging Conference 2019** addresses the challenges, options, and opportunities associated with future packaging requirements, technology choices, drivers & barriers, security, 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. This one and one-half day event includes the following elements:

**Market assessments**  
**Networking lunch, breaks & reception**  
**Suppliers Forum presentation opportunity**

**Technology reviews and evaluations**  
**Complimentary display space**  
**IT Strategies report**

**2 for 1 Registration - One Registration Fee provides access to & all presentations from Digital Manufacturing Conference 2019 and Future Packaging Conference 2019!**

#### Tuesday, February 5, 2019

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

#### Welcome and introductions

Conference Chair: [George Gibson, Managing Partner, Chromis Media and Advisors \(formerly Director of Technology Scouting, Xerox Corporation\), Webster, New York](#)

**Digital, intelligence, and sustainability are the future of packaging**  
[George Gibson, Managing Partner, Chromis Media and Advisors \(formerly Director of Technology Scouting, Xerox Corporation\), Webster, New York](#)

- Packaging joins the expanding digital age that surrounds us
  - Communication
  - Entertainment
  - IoT
  - Financial
- Defining digital, smart, and sustainable packaging
  - Current technologies
  - Status
  - Trends & opportunities
- Sustainability: Impact of consumer conscience, legislation, materials, conservation, recycling initiatives, & economics
- Markets
  - Domains & definitions
  - Current market structure & size
  - Growth projections

12:00 Noon Networking Lunch

1:30 p.m. Session 2

**Pre-treatment, primers, & post-treatments in digital packaging**  
[Dr. Alan L. Hudd, Director & Co-Founder, Alchemie Technology, Cambridge, UK](#)

#### Establishing inkjet printing in packaging through ink and coating chemistry

[Kim Champion, Vice President Inks & Materials, Memjet, San Diego, California](#)

- How primers & OPV's can enable digital printing to meet folding carton & corrugated printing needs
- Benefits of expanded gamut in packaging market
- How to meet tough requirements for food packaging
- How systems approach enables builders to develop solutions quickly to meet demanding customer needs

#### Smart packaging's importance & role

[George Gibson, Managing Partner, Chromis Media and Advisors \(formerly Director of Technology Scouting, Xerox Corporation\), Webster, New York](#)

- Smart packaging technologies: Visual & electronic passive sensors, active sensors, sensor meshes
- The package's role in big data analytics
- Importance & role of sensor development & proliferation
- Commonly referenced smart packaging categories: Ergonomic, informative, active (chemoreactive & bioreactive), responsive (informative, corrective, thermoresponsive, mechanoresponsive, bioresponsive, chemoresponsive)
- Role of printed electronics

**Suppliers' Forum:** 5-Minute presentations related to technology, capabilities, services, products Introductions, etc. - open to all.

6:00 p.m. Networking Reception in Display Area

- Program continued on next page -

**Wednesday, February 6, 2019**

8:30 a.m. Session 3

**The importance of barcode technology for secure products, packaging, labels and more**

Gary Parish, President, Complete Inspection Systems Inc. Indialantic, Florida

- The importance of secure barcodesL A personal story
- Selecting the right barcode to meet the application
- Product authentication: Understanding the difference in 2D symbology
- Adding secure barcodes to products
- DataMatrix barcode required for pharmaceutical industry
- Technology to authenticate serialized GS1 barcodes for track and trace
- Cloud verification vs. off-line verification with barcode technology
- The authentication process
- Utilizing public & private codes to create security

**What is the future of packaging?**

George Gibson. Managing Partner, Chromis Media and Advisors (formerly Director of Technology Scouting, Xerox Corporation), Webster, New York

- Future packaging value propositions
  - What digital, intelligence, and sustainability add to packaging value propositions
  - Design, printing, and other infrastructure requirements
  - Drivers, enablers, and barriers to adoption
- The evolving regulatory environment
- Unique requirements and opportunities
  - Customization
  - Pharmaceutical packaging: Track & trace, anticounterfeiting, shelf-life & storage condition, validation
  - Food packaging: shelf-life extension, freshness & ripeness, supply chain integrity, waste reduction
  - Reduced materials consumption, increased recycling, and less environmental impacts
  - Brand protection and building customer engagement
  - True run length 1
- Applications potential in fitness, medical, wearables, etc.
- The internet of (packaged) things
- Developing your "Future Packaging Strategy"

**How much digital packaging print does and will do in next 5 years - And why**

Mark Hanley, President, I.T. Strategies, Hanover, Massachusetts

- Corrugated
- Flexible
- Folding carton
- Labels

12:00 Noon Adjournment



Dr. Alan L. Hudd  
Alchemie Technology



Kim Champion  
Memjet



Gary Parish  
Complete Inspection  
Systems

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Visit IMI Web Site

[www.imiconf.com](http://www.imiconf.com)

**Future Packaging Conference 2019  
Strategic Advisory Board**



George Gibson  
Chromis Media & Advisors



Mark Hanley  
I.T. Strategies





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Altamonte Springs (Orlando), Florida

February 5-6, 2019

The **Ink Jet 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 **Inkjet Academy** provides a program and convenient format designed to provide useful resource information for anyone entering the inkjet industry, seeking an update on today's technology, or looking for further fields of development.

### Tuesday, February 5, 2019

8:00 a.m. Registration

8:30 a.m. Opening Session

#### Introduction to inkjet

- Course overview
- Types of inkjet technology
- Drop on demand technologies
- Thermal & 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
- Si-MEMS/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 an ink for reliability: Methods & characterization

#### Drops in flight

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

#### Inkjet materials and dispersions

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

#### System design issues

- Ink supply
- Nozzle maintenance
- Mist control

#### Substrates & interactions

- Paper & coated paper
- Films, rigid substrates
- Bleed & intercolor control
- Pre & post coatings
- Adhesion
- Requirements vs. applications
- Drying
- UV curable materials
- Monomers
- Oligimers
- Photoinitiators
- UV curing
- e-beam curing

6:00 p.m. Networking Reception

### Wednesday, February 6, 2019

8:00 a.m. Session 3

#### Print & Image Quality

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

#### Ink Jet Applications

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

#### Emerging Technologies

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

12:00 p.m. Adjournment

### Inkjet Academy Leaders

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

Dr Hudd is Director and co-founder of Alchemie Technology Ltd, an independent contract development and consultancy company to the industrial inkjet industry. Alchemie is developing and commercializing a range of novel printhead technologies through its joint venture company, Jetronica. Jetronica specializes 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.

Alan Hudd was the Founder and Managing Director of Xenxia Technology from 1996 to 2012. Dr. Hudd graduated with B.Sc. Honours degree in Chemistry and Physics, M.Sc and Ph.D research degree in Polymer Chemistry from Manchester University.

#### Mike Willis, Managing Director, Pivotal Resources Limited, Cambridge, UK

Mike Willis is the Founder and Managing Director of Pivotal Resources, an international marketing and technical consultancy specializing in digital printing. He has worked in this industry for the past 30 years, accumulating extensive experience in a wide range of imaging technologies.

Recognized as an industry expert, he regularly speaks and gives tutorials at printing conferences in Europe and North America. Additionally, he is Publisher of Directions, a service that monitors inkjet patents and significant product launches. Mr. Willis graduated from the Polytechnic of Central London with an honours degree in Photographic Sciences.

Register Online  
[www.imiconf.com](http://www.imiconf.com)



# Digital Print Week 2019

## Inkjet Printing Conference 2019

Embassy Suites by Hilton Orlando North  
Altamonte Springs (Orlando), Florida  
**February 6-8, 2019**

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 2019** 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, trend, and issues critical to continued adoption, growth, and expansion of Inkjet printing applications and markets. IMI's **Inkjet Printing Conference 2019** program is designed to bring together the ink jet industry's leading experts to provide a comprehensive assessment of the industry (present & future) and to provide valuable insights into development of your future inkjet business strategy..

- Market briefings from leading analysts
- Updates and views from industry pacesetters
- Development perspectives from key sectors
- New technology introductions from inkjet innovators
- Networking lunch, breaks & Receptions
- Complimentary display space
- Suppliers Forum presentation opportunities
- I.T. Strategies market report

### Wednesday, February 6, 2019

11:00 a.m. Registration  
1:30 p.m. Opening Session

#### Welcome & Introductions

Alvin G. Keene, President, Information Management Institute, Inc., Carrabassett Valley, Maine  
Conference Chair: Mike Willis, Managing Director, Pivotal Resources, Cambridge, UK

#### All of inkjet: Review & projection of technology & market status

Mark Hanley, President, I.T. Strategies, Hanover, Massachusetts

- Commercial print: Books, transaction, direct mail, graphic arts
- Packaging: Corrugated, flexible, folding carton, etc.
- Industrial: Wide format graphics, textile, ceramic, decorative, etc.

#### Case studies in fast time to market for inkjet solution to meet demanding applications

Tom Roetker, Vice President Engineering, Memjet, San Diego, California

- Modularity, flexibility, and systems approach are enabling OEMs to develop printing solutions quickly
- How to reduce printing solutions time to market
- Case study: Developing award winning solution while cutting development time
- Case study: Adapting printing technology to multiple markets through partnerships
- Case study: Setting up strategic partnerships to quickly bring digital printing to new markets

#### The world of inkjet innovation as seen from patents

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

- Statistics: Who is filing patents
- Thermal inkjet arrays: Canon, HP, & Memjet
- New piezo printhead developments: Xaar, Kyocera, & others
- Intermediate transfer architectures: Canon, Landa
- Interesting system & application patents



Tom Roetker  
Memjet



Mary K. Schilling  
Inkjet Insight

#### Inkjet systems provide complex solutions for industry markets & their complicated substrates

Mary K. Schilling, Inkjet Development & Print Quality Manager, Inkjet Insight, Fountaintown, Indiana

- Main focus of each solution: Deliver production performance, print quality, & ink to substrate compatibility
- Training often starts at end of process with hardware - Not at beginning of process development
- For industrial markets: This "end" focus does not provide depth of understanding  
Necessary to integrate inkjet into existing manufacturing  
To deliver needed print quality
- Addressing the "voids" in development, installation, & implementation which  
Confuse end users  
Create longer sales process  
Compromise or delay successful operations

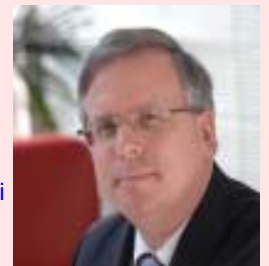
**Suppliers' Forum 1:** 5-Minute Presentations Related To Inkjet Technology, Capabilities, Services, New Product Introductions, etc. Suppliers' Forum is open to all Conference Registrants.

6:00 p.m. Networking Reception in Display Area  
**- Program continued on next page -**

### Inkjet Printing Conference 2019 Strategic Advisory Board



Mark Hanley  
I.T. Strategies



Paul Morgavi  
Xerox



Joe Ryan  
Ricoh Printing  
Systems America



Mike Willis  
Pivotal Resources

Thursday, February 8, 2019

8:30 a.m. Session 2

**Printhead developments enable applications expansion**

Joseph Ryan, Director Business Development, Ricoh Printing Systems America, Simi Valley, California

- "Inkjet is hard" even today - But a powerful tool
- Ricoh inkjet technologies
- Matching printheads to specific applications requirements
- Evaluation tools
- Printhead design improvements to support wider range of inks
- Future printhead design & performance directions
- Into the future: We've hardly scratched the surface

**High standoff inkjet defect control**

James Gill, Account Director, FUJIFILM Dimatix, Lebanon, New Hampshire

- Evaluating the worst case control scenario
- Breakdown of fluid dynamics affecting small drops
  - With high standoff
  - At high speed
- Methods to control drops

**Closed loop image quality control for inkjet systems**

Dr. Seemit Praharaaj, Engineering Specialist I, Xerox Corporation, Webster, New York

**Precision digital coatings & digital dyeing**

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

- Digital material science overview
- Technologies for digital precision coatings & digital dyeing
- Challenges of applying precise coatings in a digital world
- Applying functional materials
- Overcoming issues with
  - Materials of higher viscosities
  - Achieving higher coating thicknesses
- Creating uniform coatings/dyeing with high consistency on a web

12:00 Noon Networking Luncheon

1:30 p.m. Session 3

**Ideal drying & curing of aqueous inks & coatings**

John Palazzolo, Director, Marketing & Sales, Adphos North America, Brookfield, Wisconsin

- Review of drying process
  - Adhesion & penetration effects
  - Rub resistance
  - Print quality
- Porous & non-porous media
- Absorption characteristics of inks
  - Wet vs. dry inks
  - Substrate & coating effects
  - Effect of water
- Review of drying techniques
  - Direct contact
  - Convection
  - Radiative drying
- Near-IR drying: benefits & trends

**Progress on thermal inkjet (TIJ) for coding & marking market**

Yuta Matsumoto, Assistant R&D Director, Kao Collins, Cincinnati, Ohio

- Continuous inkjet (CIJ) can print on almost anything BUT
  - High operation costs
  - Complicated maintenance
  - VOC generation
- TIJ can provide lower cost, easier operation & much less VOC BUT
  - Limitations on substrate versatility
  - Jetting reliability issues
  - Throw distance limitations on irregular surfaces
- Recent TIJ developments
  - Water-based TIJ ink on film application: Film forming & good wettability
  - Solvent-based TIJ ink with improved reliability: Slower evaporation by controlling surface interaction & bulk ink stability
  - Cartridge improvement: print width & throw distance
- Potential applications

**Systemic application of inkjet inks for labels & packaging**

Mathieu Carni, Director Business Unit Inkjet, Siegwirk, Siegburg, Germany

- Piezo inkjet inks becoming more common: Current & future market position
- Need to understand "bigger picture" systemic & regulatory issues
- Key parameters for matching inkjet ink solutions to application requirements
- Nutrition, pharma, & healthcare compliance
- Ensuring packaging compliance & performance: a complex challenge
- Process for compliant & performance packaging

**A function of design: How new inks enable new manufacturing processes**

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

- Parameters that influence novel inkjet ink design
  - Providing desirable surface properties
  - Enabling unique & specific ink performance capabilities
  - On industrially important substrates
- When depositing via high throughput operations, inks can greatly simplify manufacturing processes
  - Deliver significant economic benefits
- Examples in electronic materials, decorative inks, sensors, etc.
- Functional materials trends & future requirements

**Suppliers' Forum 2**

6:00 p.m. Networking Reception in Display Area

- Program continued on next page -



Mathieu Carni  
Siegwerk



Peter Hessney  
Sensor Films



James Gill  
FUJIFILM Dimatix



Seemit Praharaaj  
Xerox



Dr. Alan L. Hudd  
Alchemie Technology



John Palazzolo  
Adphos North America



Yuta Matsumoto  
Kao Collins



**Friday, February 8, 2019**

8:30 a.m.

Session 4

**Inkjet in packaging - Trends, challenges & future developments**

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

- State of the market: Key players, products, & positioning
  - Labels
  - Corrugated
  - Cartons
  - Flexible packaging
- Single pass vs. scanning systems
- Key challenges for high end single pass systems

**Inkjet digital label printing**

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

- Pros & cons of digital printing
- Commercial Systems & state of the art
- Hybrid systems
- Digital Embellishment
- Functional labels
- Market Opportunities

**Enterprise output management for transactional print**

**Rich Huff, Principal Analyst, Madison Advisors, Colleysville, Texas**

- Color inkjet usage significantly expanded in transactional print
- Color engines require added control & management for success
- New EOM (Enterprise Output Management) process alleviates challenges of
  - Electronic document output creation for inkjet production
  - Mailing preparation
  - Mailing distribution & delivery channels
- How to determine which solution is right for your inkjet environment
- Study results of established & new EOM technology solutions
  - Market trends
  - Comparison of EOM technology solutions
  - How they support print service providers and enterprise CCM initiatives

**Inkjet's role in digital textile printing applications**

**Grant French, President, Digital Ink Sciences, Hemet, California**

- Ink technology: Then & now - screen & digital
  - Latest trends: Less water & energy, better fastness & run time
- Benefits
  - Environment: Water, square footage, & power
  - Costs: Labor, square footage, & power
  - Quick response manufacturing: Less inventory, faster turn, smaller investment, strategic location, small foot print
- Markets: Allows multiple locations to address smaller regional markets, regional fast fashion, fast change between chemistries/substrates
- Challenges: \$/sqft, end use properties (wash, wet & dry crock)
- Economics
- Trends & market review

**Inkjet hard surface dye transfer technology & applications**

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

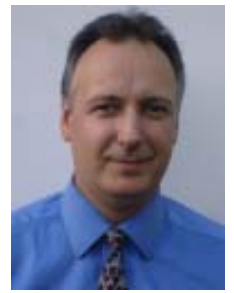
- 3D transfer/2D transfer
- Sublimation vs. diffusion
- Applications: Graphics, signage, architectural elements
- Durability challenges
- Dye interactions
- Transfer media
- Unmet needs
- Opportunities for future developments

1:00 p.m.

Adjournment



**Debbie Thorp**  
Global Inkjet Systems



**Dr. Rich Baker**  
Integrity Industrial  
Ink Jet Integrators



**Rich Huff**  
Madison Advisors



**Grant French**  
Digital Ink Sciences



**Dr. Ray A. Work, III**  
Work Associates

**For Latest Program Updates &  
To Register Online**

Visit IMI Web Site

**[www.imiconf.com](http://www.imiconf.com)**



The Embassy Suites by Hilton Orlando North  
address is:

225 Shorecrest Drive

Altamonte Springs, FL 32701

Phone: +1-407-834-2400

Fax: +1-407-834-2117

Web Site: <https://tinyurl.com/ESOrlandoNorth>

**REGISTRATION INFORMATION**  
**Digital Print Week 2019**



Registration Fees: \$1095 **per registrant per program**  
\$995 for (1) additional program registration to same registrant or (2) each additional registrant from same organization when registered as a group

**NOTE: Registration to either of the 2 concurrent Digital Print Conferences 2019 allows you to attend any desired sessions of both conferences and you will receive conference materials from both conferences.**

The registration fee includes attendance at all program sessions, all scheduled program functions, and an electronic copy of that program's reference materials plus I.T. Strategies' "Digital Document & Industrial Print - Beyond the Office" Market Report.

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

**To register**, complete online registration at [www.imiconf.com](http://www.imiconf.com) OR submit the registration form below to Susan Vandrey, Conference Administrator, Information Management Institute, Inc., 1106 Valley Crossing, Carrabassett Valley, ME 04947 USA. You may reserve space by phone +1-207-235-2225, fax +1-207-235-2226 or email [imi@imiconf.com](mailto:imi@imiconf.com)

**Digital Print Week 2019 Registration Form**

**Digital Print Conferences 2019**

**Digital Manufacturing Conference 2019**  
**February 5-6, 2019**

**Future Packaging Conference 2019**  
**February 5-6, 2019**

**NOTE: Registration to either above 3 concurrent conferences allows you to attend any desired session of both conferences and you will receive conference materials from both conferences.**

**Inkjet Academy**  
**February 5-6, 2019**

**Inkjet Printing Conference 2019**  
**February 6-8, 2019**

**I wish to reserve a**

**Display Space**

**Suppliers' Forum slot (NOT Available for Inkjet Academy)**

**Please send me information on**

**Sponsorship Opportunities**

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**Embassy Suites by Hilton Orlando North**

IMI's **Digital Print Week 2019** programs are being held at the Embassy Suites by Hilton Orlando North in Altamonte Springs. It is conveniently located 8 miles north of downtown Orlando and 20 miles from Orlando International Airport. The group rate of \$144 per night (including wifi & full breakfast) is available until January 16, 2019.

**Hotel reservations are now on space available basis. To request a reservation at the "IMI" group rate of \$144 per night, you will need to contact Dorie Simmons [Dorisa.Bonaventura@hilton.com](mailto:Dorisa.Bonaventura@hilton.com) or +1-407-571-3432 OR Mary Beth Byrd [MaryBeth.Byrd@hilton.com](mailto:MaryBeth.Byrd@hilton.com) or +1-407-571-3434.**

Recommended ground transportation to or from Orlando International Airport is Uber or Lyft (estimated one way fares of \$32 to \$40). Estimated taxi fare is \$52 to \$56.

Embassy Suites by Hilton Orlando North is the only hotel situated on picturesque Cranes Roost Lake. Walk the boardwalk to see Uptown Altamonte - an entertainment, shopping, and dining district on the lake. Or relax in your spacious two-room suite featuring separate living room with sofa bed, private bedroom, complimentary WiFi, two flat-screen TVs, wet bar, refrigerator, and microwave. Start your day with the complimentary cooked-to-order breakfast or grab a bagel and coffee to go. Gather with friends in the tropical garden atrium for hotel's complimentary evening reception. Savor classic premium beef and seafood specialties for lunch or dinner at Omaha Steak House located in the hotel. Maintain your exercise routine in the fully equipped fitness center, swim laps in the indoor pool, or jog the scenic one-mile Cranes Roost Lake boardwalk - just outside the hotel.

