



## **Inkjet Age of Materials Conference 2018**

**September 5-6, 2018**

### **Industrial Print Academy**

## **Inkjet Technology for Industrial Print**

**September 7, 2018**

**Embassy Suites Chicago Lombard/Oak Brook  
Lombard, Illinois**

IMI's **Inkjet Age of Materials Conference 2018** along with learning opportunities at the **Industrial Print Academy** are designed to provide improved understanding of and the ability to capitalize on the business opportunities being generated by inkjet materials and related technologies advancements. **If you are interesting in speaking opportunities at the Inkjet Age of Materials Conference 2018 - 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 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**.

### **Complimentary Displays & Suppliers' Forum**

IMI's **Inkjet Age of Materials Conference 2018** and **Industrial Print Academy** provide the opportunity to have complimentary display space to exhibit your products, technology or services. And the **Inkjet Age of Materials Conference 2018** provides 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 throughout the programs. **There is no fee in addition to the standard program registration fees to have a display and/or to give Suppliers' Forum presentations. To reserve your display space and Suppliers' Forum presentation slots, please register online and check off the boxes indicating your participation OR complete the registration form in this flyer and fax to +1-207-235-2226 OR email [al@imiconf.com](mailto:al@imiconf.com)**



# Inkjet Age of Materials Conference 2018

Embassy Suites Chicago Lombard/Oak Brook  
Lombard (Chicago), Illinois

**September 5-6, 2018**

IMI's **Inkjet Age of Materials Conference 2018** is designed to assess the current and needed developments in inkjet materials necessary to realize the full potential for inkjet technologies in current and new applications.

The inkjet industry has made great strides in developing successful inks and functional fluids for many applications, yet continued ink and fluids development is considered by many to be the most essential component for inkjet's continued applications diversification and market growth.

IMI's **Inkjet Age of Materials Conference 2018** addresses the challenges, options, and opportunities associated with future inkjet materials requirements, technology choices, drivers & barriers, and other issues required to effectively implement inkjet ink and fluids technologies for applications expansion and diversification. This strategic conference for the inkjet industry provides high value information on innovations, trends, and issues for senior executives, commercial managers, development teams, end users, and others looking to expand their knowledge and understanding of materials developments, products, and technologies shaping the future of inkjet as well as exchanging ideas with industry experts and peers. This two day event features the following elements:

- Updates & Views from Inkjet Pacesetters
- New Technology Needs & Introductions
- Complimentary Display Space
- I.T. Strategies Report: "Digital Document & Industrial Print Beyond the Office"
- Market/Opportunity Perspectives from industry experts
- Networking Lunces, Breaks & Recetion
- Suppliers Forum Presentation Opportunities

**Get a "Jump Start" in The Future of Inkjet!**

## Wednesday, September 5, 2018

- 8:00 a.m. Registration
- 9:00 a.m. Opening Session

### Welcome & Introductions

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

### Inkjet Materials: Key to Market & Application Expansion

- Inkjet printing industry structure & dynamics
- Inkjet inks & fluids marketplace
- Inks & fluids market size & structure
- Substrate interactions & importance
- Industrial print applications driving new materials requirements and development

- 12:00 Noon Networking Luncheon
- 1:30 p.m. Session 2

### Inkjet Materials: Key to Market & Application Expansion

- Colorants, resins, polymers, additives, etc.
- Dispersants & dispersion techniques
- Aqueous & solvent inks
- UV inks
- Functional materials: electrical, graphene, drugs, reactive, etc.
- Competitive digital alternatives: thermal, thermal transfer, toner, etc.
- Materal processing & analytical techniques

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

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

## Thursday, September 6, 2018

- 8:30 a.m. Session 3

### Inkjet Materials Requirements & Trends for Growth Markets

- Consumer Goods
- Decorative laminates, flooring, wallcoverings, etc.
- Glass
- Home decor
- Packaging
- Pharmaceuticals
- Printed electronics
- Security & brand protection
- Surface & product decoration
- Textiles
- & more!

- 12:00 Noon Networking Luncheon
- 1:30 p.m. Session 4

### Inkjet Materials Future Trends & Opportunities

- 3D printing
- Bioprinting
- Food grade inks/fluids/coatings
- Nanomaterials
- Reactive inks/fluids
- Sustainable & bio-based raw materials
- Processing tecnologies innovations
- & more!

- 4:00 p.m. Adjournment

**Call for Papers**

**Submit Proposed Presentation Titles  
& Brief Outlines to  
Al Keene [al@imiconf.com](mailto:al@imiconf.com)**



# Inkjet Age of Materials Conference 2018

## Strategic Advisory Board

The **IMI Inkjet Age of Materials Conference 2018 Strategic Advisory Board** includes industry luminaries whose expertise covers a wide range of technology and applications in all aspects of digital printing. This board is guiding development of the conference program topics and presentations to focus on strategic inkjet ink and raw materials developments, trends, and issues. Strategic Advisory Board members are



John Cooper  
President  
TRS Consulting



Lawrence Gamblin  
President  
Kao Collins



Mark Hanley  
President  
I.T. Strategies



Dr. Alan L. Hudd  
Director & Founder  
Alchemie Technology



## Inkjet Technology

### for Industrial Print (Agenda page 4)

September 7, 2018



#### Inkjet Technology for Industrial Print Course Leader

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

Dr. Hudd is Director and Founder of Alchemie Technology Ltd. Alchemie is an independent contract development and consultancy company to the industrial inkjet 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.

Dr. Hudd was the Founder and Managing Director of Xennia Technology from 1996 to 2012. During this period, he built Xennia to become a world leading Inkjet developer and solutions provider to industrial inkjet markets.

Dr. Hudd is credited with being one of the pioneers to successfully inkjet print UV curable materials. In one case, high aspect ratio UV curable printing was achieved to create fine 3D tooling for the use of injection moulding. A number of other projects followed that have sown the seeds for many current UV cure applications.

He is a frequent speaker at inkjet industry events worldwide and is co-presenter of **The Inkjet Academy** which has been attended by over 3,000 participants in the US, China, Europe, Japan, and India. 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.



### Sponsorship Opportunities

#### Inkjet Age of Materials Conference 2018

#### Industrial Print Academy

IMI is excited to announce a sponsorship opportunity for industry suppliers to position themselves "front and center" before a key group of inkjet business leaders including executives, product developers, technologists, major users, etc. - **PLUS** distributing their message to IMI global database of over 20,000 relevant contacts.

For details on sponsorship opportunities, contact Al Keene [al@imiconf.com](mailto:al@imiconf.com).

**September 7, 2018**

It's hard not to notice that the world is going digital, and that inkjet's current growth is being driven by manufacturing or "industrial print" applications. Leading market forecaster IT Strategies has the industrial print market vendor revenues (hardware & consumables) growing to \$10B in 2020 - yielding over \$40B of retail revenue to print providers for the printed output. This includes applications such as décor, product and surface decoration, deposition and incorporation of functional materials into products, complex multi-process 3D product manufacturing applications, security, packaging, and labeling.

The key to successful entry and participation in the industrial inkjet arena is a comprehensive knowledge and understanding of inkjet technologies and how they enable successful industrial inkjet applications. IMI's **Inkjet Technology for Industrial Print Course** covers the inkjet system, its components plus the issues and coming developments that will shape the future of inkjet.

Whether you are an inkjet industry supplier or in any current or future end use industry, whether you are already deeply involved in industrial print or you plan to be in the future: IMI's **Inkjet Technology for Industrial Print Course** provides an understanding of and an ability to recognize what is possible in the near term; the limits of current technologies; and insights into the breakthroughs necessary to achieve ultimate success. Led by recognized inkjet industry expert Dr. Alan L. Hudd, Director & Founder of Alchemie Technology (and co-presenter for popular **Inkjet Academy**, this course will give your understanding of the industrial inkjet industry an expert start or a timely update.

**Friday, September 7, 2018**

8:00 a.m. Registration

8:30 a.m. Course Session Begins

**Introductions & Course Overview****The inkjet system: How components work & roles they play**

- **Printheads: Types, operation principles, design parameters, etc.**
- **Drive electronics & data management**
- **Ink management system**
- **Ancillary technologies: Substrate/material handling, motion control, finishing, etc.**
- **Understanding the inkjet printing process**

**Inkjet inks**

- **Ink types: Aqueous, solvent, oil, phase change & UV cure**
- **Inkjet ink design & formulation**
- **Dyes, pigments & specialty additives**
- **Drop formation**
- **Substrate interactions**
- **Drying & Curing**
- **Properties influencing piezo inkjet ink performance**
- **Testing inks for reliability: methods & characterization**
- **Establishing suitability for applications**

**Print quality**

- **Establishing requirements**
- **Factors affecting print quality**
- **Printhead-ink-substrate**
- **Grayscale methods**
- **Drop detection**
- **Banding, single pass issues**
- **Drying & curing effects**

**Follow IMI on Social Media**Twitter [www.twitter.com/IMI\\_conf](http://www.twitter.com/IMI_conf)LinkedIn [www.linkedin.com/in/alvinkeene/](http://www.linkedin.com/in/alvinkeene/)Facebook [www.facebook.com/imiconf/](http://www.facebook.com/imiconf/)**Why inkjet?**

- **Versatility & customization: Digital print proposition**
- **Materials, energy & time savings = improved ROI**
- **Print plus deposition, coating, additive manufacturing and other unique applications**
- **Integration into existing production environments**
- **Marketing advantages**
- **Brand identity**
- **Inkjet as a disruptive technology**

12:00 Noon Networking Luncheon

1:00 p.m. Course reconvenes

**Major industrial inkjet applications: Status, challenges and expectations**

- **Architectural: Glass, wall coverings, etc.**
- **3D printing/additive manufacturing**
- **Flooring: ceramic tiles, laminates, wood, etc.**
- **Packaging: Containers, corrugated, flexible**
- **Printed electronics**
- **Product decoration**
- **Textiles**

**Material advancements = new industrial print applications**

- **Anisotropy, flakes**
- **Bioengineering materials (Cells, tissue, organs, etc.)**
- **Composites**
- **Drugs/pharmaceuticals**
- **Food grade inks/fluids**
- **Functional fluids: reactive, electrical, biofunctional**
- **Graphene & 2D materials**
- **Metals, powders & dispersions**

**Competitive & available application techniques**

- **Driven by societal transition to digital**
- **Inkjet**
- **3D printing/additive manufacturing techniques**
- **Digital dispensing**
- **Hybrid approaches**

**Developing your digital implementation roadmap****What can be expected in the next few & ten years?**

4:00 p.m. Course adjournment

## REGISTRATION INFORMATION

### Inkjet Age of Materials Conference 2018

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

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



### Industrial Print Academy - Inkjet Technology for Industrial Print Course

Registration Fees: \$695 per registrant  
\$645 per registrant from same organization for two registrants  
\$595 per registrant from same organization for three or more registrants

The registration fee includes attendance at all course sessions, all scheduled course functions, and an electronic copy of appropriate course 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)

## Inkjet Age of Materials Conference 2018 and Industrial Print Academy Registration Form

- Inkjet Age of Materials Conference 2018**  
**September 5-6, 2018**
- Industrial Print Academy - Inkjet Technology for Industrial Print Course**  
**September 7, 2018**

**I wish to reserve a**

- Display Space**
- Suppliers' Forum slot (NOT Available for Industrial Print Academy)**

**Please send me information on**

- Sponsorship Opportunities**

Mr. \_\_\_ Ms. \_\_\_ Miss \_\_\_ Mrs. \_\_\_ Dr. \_\_\_

NAME \_\_\_\_\_

JOB TITLE \_\_\_\_\_

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

COUNTRY \_\_\_\_\_

PHONE \_\_\_\_\_ FAX: \_\_\_\_\_

EMAIL \_\_\_\_\_

- I Want to Pay by Credit Card  Please Invoice Me

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

Visit IMI Web Site  
[www.imiconf.com](http://www.imiconf.com)

### Embassy Suites Chicago - Lombard/Oak Brook

IMI's **Inkjet Age of Materials Conference 2018 & Industrial Print Academy** are being held at the Embassy Suites Chicago - Lombard/Oak Brook - recipient of Trip Advisor's 2018 Certificate of Excellence Award. It is conveniently located 14 miles from O'Hare International Airport and 21 miles from Midway Airport. The group rate of \$149 per night (including wifi & full breakfast) is available until August 21, 2018. Reservations can be made by calling +1-800-362-2779 or +1-630-969-7500 (Reference "IMI Group Block-Group Code IMM"). Make online reservations at <https://tinyurl.com/IMISept2018>.

To make reservations at the Group rate for nights before Sept 4th or after Sept 8th, you will need to contact Tina Diaz [Tina.Diaz@hilton.com](mailto:Tina.Diaz@hilton.com) or +1-630-971-4233.

The Embassy Suites Chicago - Lombard/Oak Brook recommends Windy City Limousine for airport transfers. One way airport shuttle service is \$30 to or from O'Hare International Airport and \$35 to or from Midway Airport on Sunday through Friday (6:00 am to 8:00 pm). Prices outside of those hours Sunday through Friday and all day Saturday are approximately double. Shuttle reservations can be made at <https://www.windycitylimos.com/> or by calling +1-866-949-4639.

The Embassy Suites Chicago - Lombard/Oak Brook address is:

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Lombard, Illinois 60148

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

