

The Conference

Join us in Louisville for the 25th International Conference on Digital Printing Technologies and Digital Fabrication 2009!

For 25 years, NIP has been the leading forum for discussion of advances and new directions in non-impact and digital printing technologies. This comprehensive, industry-wide conference includes all aspects of the hardware, materials, software, images, and applications associated with digital printing systems, including drop-on-demand ink jet, wide format ink jet, desktop and continuous ink jet, toner-based electrophotographic printers, production digital printing systems, and thermal printing systems, as well as the engineering capability, optimization, and science involved in these fields.

Since 2005, the Digital Fabrication conference has been exploring the potential of digital printing technologies with sessions on new applications and materials that go well beyond traditional printing. Digital Fabrication techniques have been used for bio-medical applications as well as to produce MEMS and new electronic devices. Collocation of these two preeminent meetings gains attendees access to more than 250 papers spanning the topics described in this pamphlet, from commercial/industrial printing and image permanence to 3D printing, printing of biological materials, and printed electronics.

The synergy created by collocation affords leading scientists and engineers the opportunity to discuss overlaps and intersections between the technical areas of imaging, medical research, electronics, and advanced manufacturing technologies.

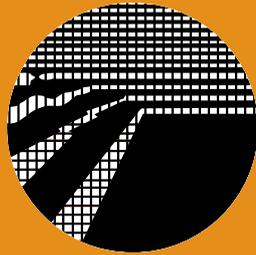
Short Courses

In addition to stimulating technical sessions, NIP25 and Digital Fabrication 2009 attendees will be able to choose from at least 25 short courses taught by world-renowned experts on a wide range of subjects related to digital printing technologies. Examples include Introduction to Digital Fabrication, Printed Electronics, Printing Biomaterials, Digital Fabrication Machinery, Industrial Ink Jet Technology for Printing and Fabrication, and Desktop Ink Jet Products Performance.

You are certain to find a short course that either introduces you to a new field or keeps you up to speed with the latest developments in your field! Be sure to check out the short course offerings in the Preliminary Program.

If you are interested in teaching a short course, please contact Susan Farnand or James Stasiak, short course chairs (see committee listings for contact information).

CALL FOR PAPERS



Digital Fabrication 2009

September 20-25, 2009



Louisville, KY

**Abstract Deadline:
February 22, 2009**

**General Chair:
Reinhard Baumann
Fraunhofer Einrichtung for Electronic
Nano Systems ENAS**

*Sponsored by the
Society for Imaging Science and Technology (IS&T)
and the Imaging Society of Japan (ISJ)*



NIP25

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The Venue

*Louisville, Kentucky
Home of the Kentucky Derby*

Located in the south central US between the Appalachian Mountains and Mississippi River, Louisville—known as the “Possibility City”—is the largest metropolitan area in the “Bluegrass State” of Kentucky. It is a place where the people—energetic modern innovators and creative entrepreneurs—are known for their warmth and hospitality.

NIP25/Digital Fabrication 2009 will be held at the Galt House Hotel and Suites (www.galthouse.com) in downtown Louisville on the banks of the Ohio River. This historic landmark is a short walk from a variety of dining, shopping, and entertainment opportunities, including the Muhammad Ali Center, Louisville Slugger Museum, Belle of Louisville riverboat, Fourth Street Live (retail/entertainment district), and Waterfront Park, which spans 72 acres along the Ohio River.

Named in honor of King Louis XVI of France, Louisville is situated near the Falls of the Ohio—an area of rapids that runs over a 386 million-year-old limestone fossil bed. With the advent of steamboats in the early 1800s, navigation of these rapids became possible, making Louisville and the surrounding area a center of commerce and industrial development.

Louisville is best known for the Kentucky Derby, the first leg of the Triple Crown of Thoroughbred racing, but it is also home to other firsts. The first public viewing place of Edison’s light bulb, the world’s first human hand transplant procedure, and the world’s first self-contained artificial heart transplant procedure all happened here. Headquarters or strategic operations for corporations such as Papa John’s, Humana, United Parcel Service, and KFC are also located within the metro area.

Louisville International Airport (SDF; www.flytolouisville.com) is serviced by 12 airline carriers, provides nearly 100 daily flights, and is a 7-minute drive from downtown. There are direct flights to Louisville from Newark, Chicago, Baltimore, Atlanta, and Houston, among other cities. Louisville is located within 500 miles of several major US cities including Atlanta, Chicago, and St. Louis, and is accessible by three major interstate highways.

Details on how to make reservations at the conference hotel will be released in the preliminary program. For now, visit www.possibilitycity.com or www.gotolouisville.com to learn more about all that Louisville has to offer attendees of NIP25/Digital Fabrication 2009.

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Huoy-jen Yuh, Xerox Corp.

TECHNICAL PAPER SUBMISSIONS IN THE FOLLOWING AREAS ARE ENCOURAGED:

NIP TOPICS

- Advanced and novel imaging systems
- Color science/Image processing
- Commercial and industrial printing
- Design for environmental sustainability
- Digital printing/Quality control instrumentation
- Electronic paper and paper-like displays
- Fusing, curing, and drying
- Image permanence
- Ink jet printing: Materials
- Ink jet printing: Processes
- Media for digital printing
- Photoelectronic imaging materials and devices
- Print and image quality
- Printing systems engineering/Optimization
- Security and forensic printing
- Textile and fabric printing
- Thermal printing
- Toner-based printing: Materials
- Toner-based printing: Processes

DIGITAL FABRICATION TOPICS

- 2D & 3D functional printing and micromachining
- Digital fabrication instrumentation
- Ink jet printing processes
- Laser patterning processes
- Laser direct-write
- Laser Integration in printing manufacturing lines
- Combinations of digital fabrication technologies
- Process materials and substrates for digital fabrication
- Toner-based printed functionalities beyond color
- Nano patterning/Imprint technologies
- Micro- and dip-pen
- Individualization via 3D prototyping technology
- Analysis of inkjet printed patterns
- Industrial and commercial digital fabrication
- Phenomenological studies on digital fabrication processes
- DF product quality
- Printed electronics and devices
- Printed sensors, photovoltaic cells, lighting devices
- Printing of biomaterials
- Printed architectural components

Keynotes

A highlight of the conference is keynote addresses by leading authorities in the industry and related scientific fields. Keynotes provide attendees with a broad perspective on industry-wide issues, important technical achievements, and market trends. This year's keynotes focus on the future of digital printing; environmental issues from the perspective of Japanese imaging companies; digital fabrication in large area electronics; and digital biofabrication.

Special Topic Sessions

A number of special topic sessions featuring invited presentations by experts in key areas related to digital printing and imaging will survey recent developments and present new contributions. These sessions give conference participants an invaluable opportunity to learn more about emerging and core technologies in these areas:

- Printing Technologies from 2008 DRUPA
- Digital Packaging
- Fundamental Physics and Chemistry for Printing Technologies

Print and Sample Gallery

The Print and Sample Gallery provides an up-close, detailed look at the performance capabilities and relative advantages of various printing technologies on paper and traditional media as well as for digital fabrication. Those interested in participating should contact Chung-Hui Kuo at chung-hui.kuo@kodak.com.

Papers presented at NIP/DF may also be submitted for publication in an IS&T peer-reviewed journal. Contact IS&T for more information.

Special Panels

There are two special panels being planned for NIP25/Digital Fabrication 2009:

- Digital Packaging
- Design for Environmental Sustainability

How to Submit

The NIP25 and Digital Fabrication 2009 Conference Committees invite you to submit a technical paper representing original work in the science and/or technology of digital printing. Submissions must include:

- An abstract of approximately 200 words clearly stating the technical content of the paper and, if appropriate, emphasizing what is new compared to previously presented/published results
- Complete contact information for author(s): full name(s), company, address, telephone, fax, and email
- 75-word biographical sketch of the principal author
- Preference for oral or interactive presentation
- Preferred session assignment

Please submit the above information by **February 22, 2009** to IS&T via www.imaging.org/conferences/NIP25 or www.imaging.org/conferences/DF2009

The full text of accepted papers will be published in the conference proceedings. This text is due in electronic form by **June 30, 2009**. Please direct all submission inquiries to Diana Gonzalez at 703/642-9090, NIP25@imaging.org, or DF09@imaging.org.

Invitation to Exhibitors

More than 700 digital printing and fabrication industry leaders and technical experts will gather in Louisville for NIP25/Digital Fabrication 2009. A highlight of the conference, the exhibit features more than 40 companies showcasing state-of-the-art printing products and applications, including equipment, materials, inks and toners, papers, films, textiles, and test equipment.

If you would like to exhibit at NIP25/DF2009 please contact Exhibit Co-chairs Jack Flynn (jack.flynn@bakerpetrolite.com), Amberly Yates (amberly.yates@sunchemical.com) or IS&T staff liaison Donna Smith (dsmith@imaging.org). The exhibit dates for 2009 are Tuesday, September 22th, and Wednesday, September 23th. Early exhibitor registration rates are in effect until **June 15, 2009!**

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