

**The Digital Printing Technology Conferences**

**Meeting Announcement and  
Call for Papers**

**NIP21**

**International Conference on  
Digital Printing Technologies**



**9.18.05  
To  
9.23.05**

**The Hyatt Regency Hotel  
Baltimore, Maryland  
co-located with IS&T's Digital Fabrication  
headquartered at the Sheraton Inner Harbor Hotel**

**NIP21 SPONSORED BY:**



**THE SOCIETY FOR IMAGING  
SCIENCE AND TECHNOLOGY  
[HTTP://WWW.IMAGING.ORG](http://www.imaging.org)**

**ISJ: THE IMAGING SOCIETY OF JAPAN  
[HTTP://PSI.MLS.ENG.OSAKA-U.AC.JP/~ISJ/](http://psi.mls.eng.osaka-u.ac.jp/~isj/)**

## **WELCOME TO NIP21!**

It is your conference if you work in digital printing technology and non-impact printing! There are more than 25 tutorials to choose from, over 200 papers, and over 800 attendees. NIP brings together all the key players in the field from universities and industry from all over the world. Among a host of related products and services, are exhibits featuring inks and toners, papers, films, and test equipment. There are keynote papers, and invited papers that give an overview concerning the most important trends in imaging, as well as special events offering many opportunities for networking. We invite your participation. Submit a paper or tutorial proposal, reserve an exhibit space, or simply plan to attend the conference in Baltimore next fall. Join us at the special events throughout the conference for informative views of the future direction of digital printing.

### **CONTRIBUTED PAPERS - PROPOSED PROGRAM TOPICS**

- Advanced and Novel Imaging Systems
- Color Science/Image Processing
- Digital Printing/Quality Control Instrumentation
- Image Permanence
- Industrial Printing
- Security Printing
- Ink Jet Printing: - Materials - Processes
- Media for Digital Printing
- Photo-electronic Materials and Devices
- Printing Systems Engineering & Optimization
- Toner Based Printing Materials:
  - Innovative Processes
  - Quality Upgrade & Evaluation
- Toner Based Printing: Processes
- Print and Image Quality
- Thermal Printing

### **TUTORIALS**

Always popular, NIP21 attendees will choose from over 25 tutorials, taught by world-renowned experts, on a wide range of subjects. You are sure to find a tutorial of interest that either introduces you to a new field or keeps you up to speed with the latest developments in your field!

#### **Meet the People Who Make Digital Imaging Happen!**

NIP21 will offer plenty of opportunities to interact with your colleagues and expand your network and your knowledge. Planned activities include:

- Ice breaker reception
- A week of technical sessions
- Four days of tutorials
- Daily keynote addresses
- In-depth *Special Topic* sessions
- Panel discussions and forums
- Conference reception
- Two days of exhibits
- Print gallery and industrial printing gallery
- Complete access to presentations in the new co-located conference on Digital Fabrication at no additional cost.

## INVITED PAPERS PROGRAM

IS&T looks forward to welcoming you to NIP21 at the Hyatt Regency Hotel, Baltimore, Maryland. NIP21 will have an extensive program of invited papers and special topic sessions to complement the contributed papers sessions.

### *Keynotes*

A highlight of NIP21 will be keynote addresses by leading authorities in the industry and in science. Keynotes bring a broad perspective to industry-wide issues, important technical achievements and market trends by international known speakers from North America, Europe, and Asia. This year's keynotes will look at latest trends in mobile imaging, supplies for electrophotography, organic electronic devices and feature an overview of nanotechnology in imaging.

## SPECIAL TOPICS SESSIONS

Another highlight of NIP21 will be a number of special topic sessions offering invited presentations by experts in key areas related to digital printing and digital imaging. Special Topic Sessions will survey developments in the field and present the authors' new contributions, giving conference participants an invaluable opportunity to learn more about both emerging and core technologies. Invited papers from world-reknowned leaders will discuss the current status of these special topics:

- Digital Art
- Electronic Paper and Paper-like Displays
- Production Digital Printing
- Sensors in Imaging
- Nanotechnology in Imaging Science & Instrumentation

### *Forums and Panel Discussions*

As a NIP21 participant, you won't want to miss the forums and panel discussions on topics of current interest.

#### **Panel Discussion on Intellectual Property & Legal Aspects in Digital Printing**

This panel will address the impact of national and international law on innovation in imaging and important aspects of patent, copyright and trademark protection. Interested parties should contact the organizer, Dr. Yee S. Ng at [Yee\\_ng@nexpress.com](mailto:Yee_ng@nexpress.com) or 585-726-3935

#### **Print Gallery & Art Gallery**

- The Print Gallery enables an up-close, detailed look at the performance capabilities and relative advantages of various printing technologies on paper and traditional media. A test image will be provided for benchmarking to allow comparison of technologies. Interested parties should contact the organizer Dr. Huoy-Jen Yuh at [Huoy-Jen.Yuh@usa.xerox.com](mailto:Huoy-Jen.Yuh@usa.xerox.com).
- The Art Gallery will be held in conjunction with the special session on Digital Art and will show how artists use digital print and new imaging materials today. For more information contact the organizer Annette Jaffe at [annette\\_jaffe@earthlink.net](mailto:annette_jaffe@earthlink.net) or 408-298-8688.

#### **Invitation to Participate in the Conference for Digital Fabrication**

NIP 21 will be co-located with the IS&T's first conference on Digital Fabrication Technologies (DF01) headquartered at the Sheraton Inner Harbor. By exploiting traditional non-impact printing approaches and new printing approaches, it is now possible to pattern and print two- and three-dimensional structures at physical scales ranging from nanometers to meters. Recent work has shown that it is possible to digitally fabricate a wide variety of devices including electronic circuits, MEMs and NEMs structures, architectural components, and even biologically engineered structures. NIP21 and DF01 participants can listen to talks in both conferences.

## **CONTRIBUTED PAPERS: AN INVITATION TO AUTHORS**

We invite you to be among the 200 speakers who will describe the latest developments in their technical specialties. Original technical contributions on advances and future directions in digital printing are solicited. Suggested topics are included in, but not limited to, those listed under Proposed Program Topics. Papers must have significant technical content; the committee will not accept papers of an advertising nature. Each technical contributor will provide a manuscript for publication in the proceedings to be distributed at the conference. Oral presentations will be 20 minutes long, including 5-minutes for discussion. Interactive presentations will comprise a 5-minute oral preview during the regular session and a poster presentation on display boards. Oral and interactive presentations are considered of equal importance. Papers judged to have a general and broad appeal will be assigned to oral format, and papers judged to benefit from individualized in-depth technical discussions will be assigned to interactive format. The author's preference for one format or the other will be taken into account when assignments are made. Papers for both the oral and interactive presentation formats will be published in the Conference Proceedings. The conference language is English. To be considered for an oral or interactive presentation, please submit the abstract by February 2, 2005.

Please direct inquiries to the IS&T office, 703-642-9090; Fax: 703-642-9094; [info@imaging.org](mailto:info@imaging.org). You may also contact the Publications Chair, Dr. Jin Mizuguchi:  
[mizu-j@ynu.ac.jp](mailto:mizu-j@ynu.ac.jp)

### **Abstracts: Information to be submitted by authors Deadline: February 2, 2005**

- Abstract of approximately 200 words  
Clearly state the technical content of the paper and, if appropriate, identify what is new compared to previously presented or published materials
- Author name(s), company, address, telephone, fax and email
- 75-word biographical sketch of the principal author only
- Indicate preference for oral or interactive presentation
- Indicate preferred session assignment

Submit abstracts via IS&T's website, [www.imaging.org](http://www.imaging.org). The direct URL to the abstract submission page is:  
<http://www.imaging.org/newpapers/nip21/authors/index.cfm>

Email submission to [nip@imaging.org](mailto:nip@imaging.org) **only** if you do not have web access. Authors will be notified of acceptance by mid-April, 2005. Complete papers of approximately 4 pages must be submitted by June 2, 2005. Detailed instruction kits, including order forms for audio-visual equipment and other support, will be sent upon acceptance. Note that it will be the author's responsibility to obtain any necessary and appropriate clearances from their companies.

Papers presented at NIP21 may also be submitted for publication in one of IS&T's peer reviewed journals - *the Journal of Imaging Science and Technology* or *the Journal of Electronic Imaging*. Contact the IS&T for more information.

## BALTIMORE, MARYLAND

WWW.BALTIMORE.ORG

Baltimore is a dynamic city that continues to evolve while holding on to its maritime heritage. It lies farther west than any other major Atlantic port, and every year more than 30 million tons of cargo pass through the port of Baltimore.

The Hyatt Regency and Sheraton Hotel are located at the Baltimore Inner Harbor. The Inner Harbor is the crown jewel of the city and home to the National Aquarium, the Maritime Museum, the Maryland Science Center and the Constellation. Harborplace and The Gallery are two shopping and dining extravaganzas that draw thousands of people every weekend. Most sites and neighborhoods are within walking distance of each other. Charming historic neighborhoods surround the Inner Harbor, each offering their own character, history and cuisine. Fells Point was Baltimore's original seaport and home to the first shipyards. Little Italy is a pasta lover's paradise, and don't miss the best view of the city from the top of Federal Hill. Mount Vernon, is the cultural center of the city, and is home to the Basilica of the National Shrine of the Assumption, the first Roman Catholic cathedral in the United States; the first architectural monument to George Washington; The Peabody Conservatory of Music; and The Walters Art Museum.

Baltimore has restaurants to satisfy nearly every craving, elegant gourmet cuisine, ethnic foods from around the world and plenty of fresh seafood from Maryland's Chesapeake Bay. Baltimore is known for its Bull and Oyster Roasts and fabulous steamed crabs.

### INVITATION TO EXHIBITORS

About 800 leaders in the field of digital printing will gather in Baltimore for IS&T's 21th Annual NIP Conference. The exhibition of state-of-the-art printing products is a highlight of this conference, supplementing the tutorials and technical presentations with a close-up look at a wide range of products and applications. Exhibitors include suppliers of printing equipment and materials, inks and toners, papers, films and textiles, test equipment and a host of related products and services.

- Exhibit Dates: September 20 & 21, 2005
- Exhibit Chair: Laura Kitzmann at [laura.kitzmann@sensient-tech.com](mailto:laura.kitzmann@sensient-tech.com)

(See complete contact information on the committee listing).

If you are interested in exhibiting your products to this knowledgeable and influential group, contact the Exhibit Chair soon.

### IS&T MEMBERSHIP INFORMATION

The Society for Imaging Science and Technology is an international non-profit society whose goal is to keep members aware of the latest scientific and technological developments in the field of imaging through conferences, journals and other publications. Dues are \$95 domestic and \$105 outside the U.S. per year.

**Apply for membership prior to registering for IS&T's NIP Conference, and take the member rate for this meeting.**

We invite you to join. Contact IS&T for an application today.

703-642-9090; Fax: 703-642-9094

E-mail: [info@imaging.org](mailto:info@imaging.org)

**VISIT IS&T: <http://www.imaging.org>**

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