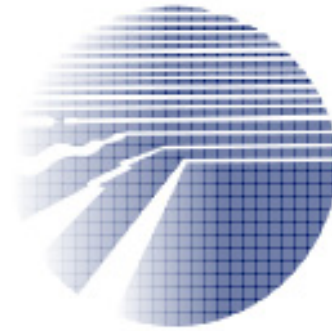


The Digital Printing Technology Conferences

International Conference on
Digital Fabrication
Technologies

DFOT1



**Announcement and
Call for Papers**

September 18
to
September 22,
2005

**The Sheraton Inner Harbor Hotel
Baltimore, Maryland**

co-located with IS&T's NIP21: International
Conference on Digital Printing Technologies
headquartered at the Hyatt Regency Hotel

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WELCOME TO DF01!

Join us in Baltimore to participate in DF01, the inaugural International Conference on Digital Fabrication Technologies to be held September 18 through 22, 2005. This new conference is co-located with IS&T/ISJ's NIP.

Over the last few years, digital and non-impact printing technologies have enabled new fabrication methods, materials, and applications. 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. These methods are finding applications in all areas of prototyping, fabrication, and commercial applications - from the laboratory bench to the manufacturing floor. A comprehensive program of invited and contributed papers from leading scientists and engineers is planned along with keynote addresses, tutorials and an exhibition of digital fabrication related products, materials and equipment. DF01 will be a companion conference with NIP21 and will provide a unique opportunity for technical professionals in both fields to discuss the advances, synergy, and directions of both technologies.

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 technologies.

CONTRIBUTED PAPERS PROPOSED PROGRAM TOPICS

Digital Fabrication Processes and Methods

- Traditional Approaches:
 - Ink Jet
 - Electrophotographic
 - Gravure
 - Other
- New Methods:
 - Micro- and Dip-Pen
 - Laser Direct-Write
 - Focused Ion and Electron Beam
 - Nano-printing and scanning probe approaches
 - Electrostatic/Electrophoretic
 - Other
- Industrial and Commercial Applications
- 3D Printing and Micromachining
- Materials and Substrates
 - Organic
 - Inorganic
 - Biological
 - Micro-, meso-, nano-scale
- Printed Electronics and Devices (moving from NIP)
- Printing of Biomaterials
- Printed Architectural Components
- Applications

TUTORIALS

DF01 attendees will be able to choose from more than 25 tutorials, taught by world-renowned experts, on a wide range of digital printing technology subjects including digital fabrication topics. 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!

Invitation to Participate in NIP21: International Conference on Digital Printing Technologies

DF01 will be co-located with the IS&T's NIP21 - Conference on Digital Printing. Over more than two decades, the NIP conferences have emerged as the preeminent forum for discussions of advances and directions in non-impact and digital printing technologies. NIP21 will offer a comprehensive program of over 200 contributed papers from leading scientists and engineers along with keynote addresses, sessions of invited papers on special topics, an extensive program of tutorials, discussion panels, a print gallery and an exhibition of digital printing components, products, materials and equipment. By co-locating the two conferences, professionals from both fields will have the opportunity to discuss common interests and new technologies. The opportunity will also help to develop a new community of scientists and engineers focused on extending nonimpact printing methods and materials and to further develop the emerging area of printed materials and digital fabrication.

Sign up for our Digital Fabrication Technologies Mailing List

Members of IS&T will automatically receive a copy of the program and registration details when available. If you are not a member, let us know you would like to be added to our mailing list.

Name: _____

Title: _____

Company: _____

Address: _____

City/State/Zip: _____

Country: _____

E-Mail: _____

Tel: _____ Fax: _____

Please identify topics of special interest: _____

Comments: _____

Mail or fax this form to:

IS&T, 7003 Kilworth Lane, Springfield, VA 22151

Fax: 703-642-9094

CONTRIBUTED PAPERS: AN INVITATION TO AUTHORS

We invite you to participate in DF01 the first IS&T sponsored conference on Digital Fabrication Technologies. Original technical contributions on advances and future directions in printed materials, "direct-write," and digital fabrication 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 be comprised of 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 15, 2005.

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

Abstracts: Information to be submitted by authors Deadline: February 15, 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. The direct URL to the abstract submission page is:
<http://www.imaging.org/newpapers/df01/authors/index.cfm>

Email submission to DF@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 DF01 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 the best view of the city is found 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 1000 leaders in the field of digital printing will gather in Baltimore for IS&T's 21st Annual NIP Conference and DF01 - the first IS&T sponsored conference on digital fabrication. 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

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 DF01 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

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