The Venue

Pittsburgh, Pennsylvania

This isn't the Pittsburgh of the 1970s and 80s! This is a whole new Pittsburgh, one committed to the environment and proud of its official designation as a Green City. Among American cities, "Pittsburgh ranks third in both the number of buildings and total square footage of certified green building space."¹

The majority of NIP24/Digital Fabrication 2008 will be held at the David L. Lawrence Convention Center, the world's largest green building and the first "green" convention center.² The Center is located on the banks of the Allegheny River, a short distance from where the Allegheny meets the Monogahela to form the Ohio River. The conference headquarter's hotel—The Westin Pittsburgh Convention Center (www.starwoodhotels.com) is connected by a skywalk and adjacent to the Lawrence Center.

Because of the confluence of its three rivers, as well as its proximity to a huge coal field and iron ore, Pittsburgh became a center of industry, in particular to those industries related to steel, from railroads and skyscrapers to battle ships. Many American titans of industry built their fortunes in Pittsburgh, including Andrew Carnegie, who established the Carnegie Institute of Technology, now known as Carnegie Mellon University.

Pittsburgh's role as an industrial center attracted immigrants from around the world. As a result of the city's diverse ethnic heritage, there are a wide-range of restaurants in all price categories and catering to various culinary tastes.

A picturesque city surrounded by its three rivers, Pittsburgh is walkable and offers something for everyone, from museums and gardens to professional sports teams. Visit such treasures as the Heinz Museum of History, The Andy Warhol Museum, The Carnegie Museum of Art, and the Phipps Conservatory and Botanical Gardens or take the Duquesne Incline tram to the top of Mount Washington for a truly spectacular view of the city.

Served by seven international and numerous regional airlines, The Pittsburgh International Airport (www.flypittsburgh.com) makes getting to the conference a breeze.

Details on how to make reservations at the conference hotel will be released in the preliminary program. For now, visit www.visitpittsburgh.com to see all the wonderful things the city hostng NIP24/Digital Fabrication 2008 has to offer!

¹ www.interiordesign.netid_newsarticle/CA6391545.html ² according the pittsburgh convention and visitor's bureau flyer



September 7-12, 2008 • Pittsburgh, PA

Abstract Deadline: February 11, 2008

General Chair: Ross Mills imaging Technology international (iTi)

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



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PAPERS

24th International Conference on Digital Printing Technologies

September 7-12, 2008 Pittsburgh, PA

Abstract Deadline: February 11, 2008

General Chair: Detlef Schulze-Hagenest Kodak Graphic Communications GmbH

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

The Conference

Join us in Pittsburgh for the 24th International Conference on Digital Printing Technologies and Digital Fabrication 2008!

For more than two decades, NIP has been the leading forum for discussions 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, desk top and continuous ink jet, toner-based laser 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 and have been used to produce MEMS and electronic devices.

Collocation of these two preeminent meetings gains attendees access to more than 250 papers spanning the topics described inside this pamphlet, from commercial/industrial printing and image permanence to 3D printing and printed architectural components. The synergy created by collocation affords leading scientists and engineers from many non-impact printing related fields the opportunity to discuss overlaps and intersections between the technical areas of imaging and manufacturing.

Tutorials

In addition to stimulating technical sessions, NIP24 and Digital Fabrication 2008 attendees will be able to choose from 25 tutorials taught by world-renowned experts on a wide range of digital printing technology 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! Be sure to check out the tutorial offerings in the Preliminary Program.

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How to Submit

The NIP24 and Digital Fabrication 2008 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 w
- Complete contact information for author: 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

Submit the above information by February 11, 2008 to IS&T via www.imaging.org/conferences/NIP24 or . . . /conferences/DF2008

The full text of accepted papers will be published in the conference proceedings. This text is due in electronic form by June 30, 2008. Please direct all submission inquiries to Diana Gonzalez at 703/642-9090, NIP@imaging.org, or DF@imaging.org

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

TECHNICAL PAPER SUBMISSIONS IN THE FOLLOWING AREAS ARE ENCOURAGED:

- Advanced and novel imaging systems
- Color science/Image processing
- Commercial and industrial printing
- Digital printing/Quality control instrumentation
- Electronic paper and paper-like displays
- Environmental issues: Regulations, green labeling, recycling, remanufacturina
- Fusing, curing, and drying
- Image permanence
- Ink jet printing materials Ink jet printing processes
- Media for diaital printing
- Photoelectronic imaging materials and devices Printing systems engineering/Optimization
- Production digital printing and workflow
- Print and image quality
- Security and forensic printing

Keynotes

A highlight of the conference will be 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 will look at packaging and digital printing; managing transition to color in transactional printing; numerical simulations in electrophotography: digital fabrication in electronics; and digital biofabrication.

Special Topic Sessions

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

- Advanced materials, nanoparticles, and photoreceptor architectures in imaging
- Diaital art
- Digital packaging
- Enhancing the value of digital prints by finishing

Print Galleries

The Print Gallery provides an up-close, detailed look at the performance capabilities and relative advantages of various printing technologies on paper and traditional media. Those interested in participating should contact Dinesh Tyagi at tyagi@kodak.com.

- Textile and fabric printing
- Thermal printing
 - Toner-based printing materials
 - Toner-based printing processes
- Traditional approaches: Ink jet, electrophotographic, gravure, etc.
- Micro- and dip-pen
- Laser direct-write
- Focused ion and electron beam
- Nano-printing and scanning probe approaches
- Industrial and commercial digital fabrication
- 3D printing and micromachining
- Materials and substrates
- Printed electronics and devices
- Printing of biomaterials
- Printed architectural components
- Applications

Special Panels

There are three special panels being planned for NIP24/Digital Fabrication 2008

- Limitations and challenges of II and EP printing, with a specific focus on environmental and reliability issues
- Exhibitor panel: an introduction to exhibiting companies, their products, and services
- Intellectual property

More than 700 digital printing and fabrication industry leaders and technical experts will gather in Pittsburgh for NIP24/Digital Fabrication 2008. A highlight of the conference, the exhibit features more than 30 companies showcasing state-of-the-art printing products and applications, including equipment, materials, inks and toners, papers, films, textiles, and test equipment.

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Invitation to Exhibitors

If you would like to exhibit at NIP24/DF2008 please contact Exhibit Co-chairs Cindy Morgan (cmorgan@ititcorp.com) or Jack Flynn (jack.flynn@bakerpetrolite.com), or IS&T staff liaison Donna Smith (dsmith@imaging.org). The exhibit dates for 2008 are Tuesday, September 9th, and Wednesday, September 10th. Early exhibitor registration rates are in effect until June 15, 2008!

Seiko Epson Corporation Sakai.Shinri@exc.epson.co.jp