DP3 digital print preservation portal
Newsletter
IMAGE PERMANENCE INSTITUTE
Issue: 10

## IN THIS ISSUE


- Summary of Abrasion vs. Scratch Study
- Review of the Aesthetics, Craft, and Care of the Fine Art Digital Print Workshop
- Inkjet Printed Books at Graph Expo
- New Test Results
- Upcoming Events


## NEW TEST RESULTS

Several new technical articles have been added to the Preservation section. These include results of the nitrogen-dioxide pollution tests, the scratch-sensitivity experiments, and a study evaluating some of the harmful interactions that can occur between digital prints and mounting adhesives. They are all free for download.

To download the PDF files, visit the preservation section of the DP3 website.

## UPCOMING EVENTS

International Symposium on Technologies for Digital Photo Fulfillment

**IS&T Technologies** *for Digital Print Fulfillment*

***Bally's Hotel and Casino in Las Vegas, NV***

***January 8-9, 2012***

IPI researchers, Eugene Salesin and Daniel Burge, will be giving two presentations: The Cracking of Inkjet Colorant Receiver Layers on Exposure to Light and Ozone and Review of Research Comparing the Image Quality and Permanence of Digital Prints vs. Offset Lithography and Silver-Halide Prints at RIT.

More information on this conference can be found at: www.imaging.org

WCAF

***National Conference*** *at the West Coast Art and Frame Show (WCAF)*

***Mirage Resort and Casino in Las Vegas, NV***

***January 29-February 1, 2012***

IPI scientist Daniel Burge will be giving two classes: Preservation Framing for Photographs: A Preservation Scientist's Perspective and Digital Print Identification.

More information on this conference can be found at: www.wcafshow.com

## Summary of Abrasion vs. Scratch Study

While there has been considerable investigation on the image stability (fade and yellowing) of digitally printed materials, there has been significantly less evaluation of their physical integrity. This is surprising given that an IPI survey of libraries, archives, and museums showed that abrasion and scratch were the number one reported form of damage to digital prints in cultural heritage collections.

The research reported here was focused on investigating the scratch sensitivity of digital prints and comparing those results to a previous study on their sensitivity to abrasion. Scratch occurs when a pointed object of very low surface area, such as the tip of a pin, moves across the print surface creating a gouge. Abrasion occurs when a flat object of relatively large surface area is moved across the surface of the print such as one print on top of another in a stack.



Scratch Abrasion

Read More

## Review of the Aesthetics, Craft, and Care of the Fine Art Digital Print Workshop

This past August 23-26, IPI held its first Aesthetics, Craft, and Care of the Fine Art Digital Print Workshop at our lab in Rochester, NY. Eight participants from North and South America, Europe and Asia attended this lecture and hands-on workshop. They explored the unique aesthetics of the fine art digital print and developed a better appreciation for the distinguishing characteristics of these objects. This collaborative workshop was taught by Ryan Boatright, a contemporary artist and master printmaker, Caroline Barcella, a photograph conservator with expertise in the care of digital prints, along with several experts from the IPI staff.

Discussion of the history and various applications of digital printing technologies were followed by live demonstrations of the fine art inkjet printing process. Topics here included basic color management theory and the use of various tools and software currently available for monitor and printer calibration. An extended set of print samples illustrated the consequences of different software settings as well as common image workflow mistakes.

Read More

## Inkjet Printed Books at Graph Expo

Graph Expo held last September was a showcase for the commercial digital print industry with attendees coming from more than 80 countries. The products shown at this event are not the desktop and office printers but the large format and digital presses found in commercial printing shops. The electrophotographic digital presses have been around for over a decade and excel in the short run (even single copy) and variable data production runs. Inkjet presses, however, are now gaining traction in the market. The inkjet devices appear to be intended as a step between the electrophotographic press and offset. They are web fed, so they need longer runs than the electrophotographic presses to be economical.

Read More