

## **PRINT CITY 2014 MAPC CONFERENCE**

### **ABSTRACT**

Title: integrating digital imaging and 4-color printing using photopolymer printing plates.

This demonstration will integrate digital image-making (both 2d imaging and 3d modeling) with traditional and contemporary print processes. The presenter will walk through the process of preparing digital images in 3D and Photoshop, creating color separations, printing transparencies, exposing images to polymer printing plates, inking, registering, and printing the plates as a 4-color image.

### **DEMONSTRATION CHAIR**

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### **DEMONSTRATION TITLE**

Integrating digital imaging and 4-color printing using photopolymer printing plates

### **DEMONSTRATION DESCRIPTION**

This demonstration will integrate digital image-making (both 2d imaging and 3d modeling) with traditional and contemporary print processes. The presenter will walk through the process of preparing digital images in 3D and Photoshop, creating color separations, printing transparencies, exposing images to polymer printing plates, inking, registering, and printing the plates as a 4-color image.

### **MATERIALS AND EQUIPMENT NEEDED**

#### **Exposing supplies:**

Dark room  
Papercutter (the blade must be sharp, as the plates are thick and hard to cut)  
Solarplates - 2 plates @ 5 x 7"  
Aquatint screen \*  
UV light exposure unit (if one is not available, I can bring a portable unit)

#### **Developing supplies:**

Sink or water supply  
Pitcher for water  
Timer (if available, if not a watch will do)  
Magnet (at least 10 x 12) \*

Soft nylon brush \*  
Paper towels or newsprint for blotting  
Hair dryer  
Photoflood lamp (a simple clamp-type lamp with a UV light bulb works fine)

**Printing supplies:**

Magnetic board \*  
Etching Inks \* – Process Cyan, Yellow, Magenta, Black  
Inking knives  
Inking cards \*  
Easy wipe  
Burnt plate oil #00  
4 Tarlatans  
Soft cloth for wiping plate edges \*  
Etching press with blankets  
Newsprint  
Printing Paper (any paper suitable for intaglio, fairly smooth surface is best)  
Paper Soaking tray and blotters/towels  
Apron \*

**Cleanup supplies:**

Vegetable oil or baby oil  
Paper towels or rags  
Hand cleaner

\* I will bring the items marked with an asterisk. I will also bring 4 pre-exposed polymer plates for the CMYK printing demo, but I would like to have 1-2 plates (Solarplate or KM plate) available for an exposure demonstration. Note, if using WSU's light exposure unit, I will want to arrange a time to test the exposures. Because I live only an hour away, this could be done weeks before the conference so I'm out of your way.

**SET UP TIME NEEDED**

½ hour?

**MINIMUM AMOUNT OF TIME NEEDED FOR DEMO**

Minimum 1 hour, 90 minutes would be great, 120 minutes would allow me to repeat the demo

**CLEAN-UP TIME NEEDED**

15 minutes (if an assistant helps)

**NUMBER OF ASSISTANTS NEEDED**

1 would be helpful in case we need something in the studio.  
I will bring my own assistant to assist with printing during the demo.