



Anita S. Hunt, *Black Flowers*, 2010, drypoint and carborundur aquatint, 6"x6", edition of 7.

forms and rounded reflections.

Zea Mays uses an acrylic resist for intaglio and a ferric chloride salt for etching each copper plate, which is dramatically different from older methods. Traditional oil-based intaglio hard grounds, which can be absorbed through the skin, are composed of lead, mercury, and arsenic. Dangerously corrosive acids such as nitric and Dutch mordant, used to etch copper plates, release components of mustard gas. Photopolymer intaglio, a process that Zea Mays practices, uses a water bath to etch the plate and involves exposing photographic negatives to a light-sensitive surface. After development, the artist is able to ink and print the plate like a traditional copper plate.

Innovative printmaking comes both from at home and abroad. Chalfin corresponds with directors of international studios that promote nontoxic printmaking. Because of this, the studio recently began using a new European intaglio ground that is a promising substitute for acrylic ground. It has all the characteristics of traditional hard and soft grounds without any harmful petroleum-based derivatives.

Not only are Zea Mays's alternative products safe and effective, but materials cost one-third less than solvents. What's more, nontoxic household products, such as vegetable oil and baking soda, are quick and easy to obtain—just a run to the grocery store. Solvent dependent studios not only have to invest in a high cost infrastructure that varies with studio size and ventilation, but they also have to ensure secure storage and disposal of used solvents. Costly fines may be imposed for improper disposal. Because ventilation is not required in nontoxic studios, printmakers can set up virtually anywhere.

Chalfin says, "Not only can these processes be used in college printmaking programs, but anyone is able to set up this type of studio inside his or her home." In all, Zea Mays Printmaking and other green studios could save many struggling printmaking programs and encourage more studios to go green.

Each November, in an effort to spread awareness of nontoxic printmaking, Zea Mays hosts Print Fair North, an open studio and print sale that features works of more than thirty studio members. Every print showcased in Print Fair North is created using nontoxic practices that anyone can use. Raffled items raise money for the Innovative Printmaking Scholarship, which provides financial aid to both beginner and advanced printmakers who wish to take a workshop and expand their understanding of nontoxic printmaking.



Liz Chalfin, In the Studio, 2010, etching.

Every month, Zea Mays's gallery space features member exhibits and invites community artists involved in nontoxic printmaking to showcase their work. From January 10 to February 11, 2011, Zea Mays Printmaking's gallery is showcasing a juried exhibit, Members Relief Show. Relief is one of the oldest yet diverse forms of printmaking and this show includes work ranging from multicolored wood block prints to simplistic black-and-white linoleum carvings.

In Chalfin's intaglio *In The Studio*, one perceives the artist's vision for Zea Mays Printmaking—a sunlit, tranquil, prospering studio. The long row of windows gently frame and backlight three dedicated members contemplatively printing. As Zea Mays Printmaking Studio progresses with transforming tradition to innovations of the future, experienced artists continue to encourage and educate younger artists. With over twenty years of experience, Chalfin and other green studios have demonstrated that refined nontoxic processes do not affect the final impression of the print. "We have evolved through research and are able to match the same

aesthetic qualities as solvent-included procedures," says Chalfin. "Now we will develop processes that surpass traditional methods and continue to educate anyone who wishes to learn."

Carand Burnet, a poet and construction artist, received her BFA from the New Hampshire Institute of Art. Her website is www.carand-burnet.com.

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