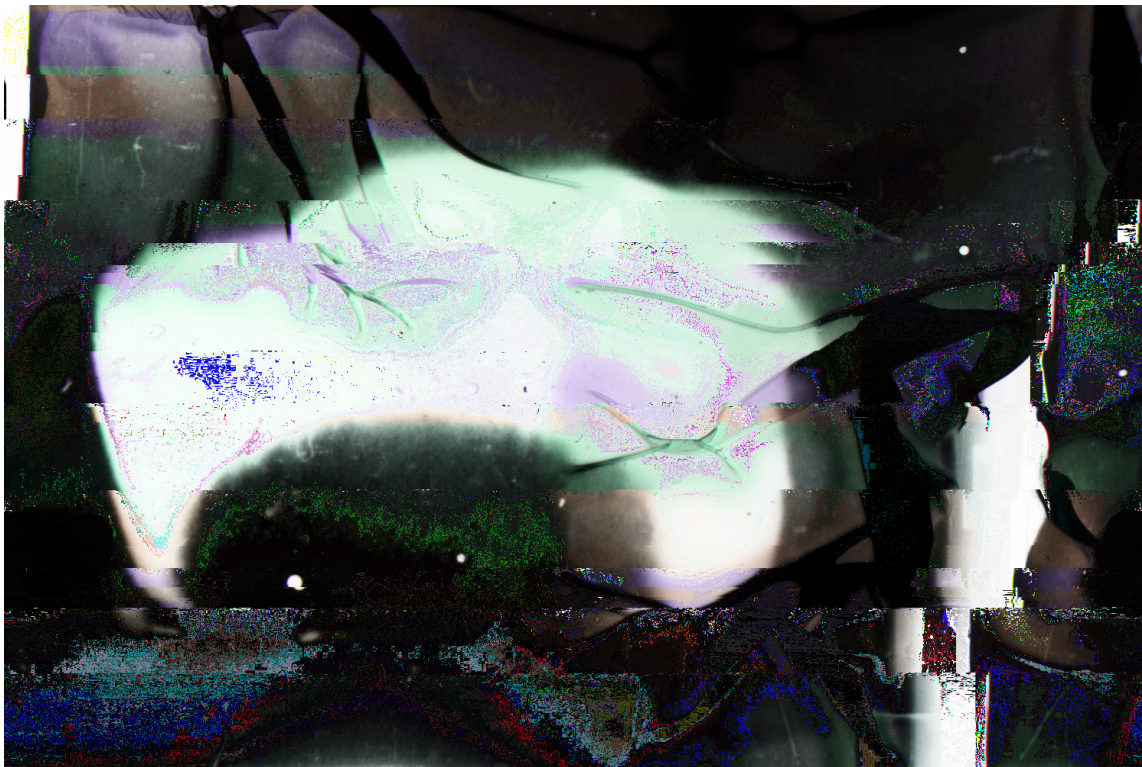


HANDMADE EMULSION

For Motion Picture Film



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Abstract

The process of handcrafting film emulsion is one that offers to the filmmaker an unprecedented degree of creative intervention and expressiveness that simply cannot be accomplished with commercial film stocks -- by making emulsion, the filmmaker is given the ability to manipulate its shape, alter its chemical properties, apply it to non-traditional bases and adjust it in countless additional ways to create a unique, photosensitive material. As such, the process manifests new forms of dialogue within the film's production, many of which are still waiting to be explored.

In this two day workshop, participants will study the craft of producing black and white, silver gelatin emulsion by formulating, mixing and coating emulsion onto cellulose acetate and various other materials. Theories concerning emulsion chemistry and emulsion production will also be explored in this workshop, providing participants with a foundation to develop their own processes and methodologies.

Workshop Details

Number of Participants - Approx. 10

Requirements for participation - None, though previous experience with film processing is strongly recommended. It is also recommended that participants provide processed film for contact printing, or objects for photogramming.

Cost - TBD

Date & Time - July 19th-20th; 12:00 AM - 8:00 PM

Venue - Current Space Community Darkroom (421 N. Howard St., Baltimore, Maryland 21201)

Instructors - Kevin Rice & Andy Busti

Press materials

Images for listings:

<http://processreversal.org/ftp/images/emulsion/>

<http://processreversal.org/blog/handmade-emulsion-images/>

Videos for listings:

<http://vimeo.com/77449068>

Process Reversal logos:

<http://processreversal.org/ftp/logos/>

Facility & Equipment Requirements** Can be provided by instructors...*Safety Gear¹

- (X/2) pairs of reusable nitrile gloves
- X pairs of safety glasses
- X aprons
- X dust masks

Emulsification Room

- Adequate safe lights (Kodak OC or equivalent)
- Timer
- 1 standard hot plate
- 1 magnetic stirrer & hot plate w/ teflon coated magnet*
- 1 heat resistant, 1000.0 ml volume, glass beaker*
- 2 heat resistant, 250.0 ml volume, glass beakers*
- 2 heat resistant, 100.0 ml volume, glass beakers*
- 1 graduated cylinder, 50.0 ml volume (ideally glass)*
- 1 graduated cylinder, 100.0 ml volume (ideally glass)*
- 3 glass thermometers within the range of -10 C and 110 C*
- 3+ glass stirring rods*
- 2 plastic syringes, 50.0 ml capacity or greater*
- Scale with 0.1 g resolution or better*

Coating Room

- Coating wheel*
- 1 Airbrush with 0.5mm or greater nozzle*
- 1 Air compressor, 30 psi or greater*
- Various brushes for coating*
- Toothbrush for cleaning*

List Continues →

¹ Whereby X is the number of participants...

Printing and developing dark room

- Sink with running water
- Adequate safe lights (Kodak OC or equivalent)
- Buckets, Trays or reels for development of the film
- Bolex

- and / or -

- Enlargers, set-up with accurate timers and glass plates for contact printing

- and / or -

- Sync Block and Rewinds for making a simple contact print

Light room / screening room

- White Board
- Light Table
- Rewinds
- Split Reel
- Projector

Expenses

All chemistry cost are based off of ArtCraft Chemical's catalog.

**Can be provided by Process Reversal*

Emulsion Chemistry

30.0 grams, Silver Nitrate.....	30.00 USD (link)*
50.0 grams, Potassium Bromide.....	5.00 USD (link)*
50.0 grams, Sodium Chloride.....	0.00 USD*
20 grams, Active Gelatin.....	1.00 USD (local grocery store)*
2 gallons, Distilled Water.....	2.64 USD (local grocery store)
1.0 Liter, Everclear grain alcohol.....	0.00 USD (local liquor store)*

Processing Chemistry

1.0 Gallon Dektol (or comparable developer).....	5.69 USD
1.0 Gallon Hardening Fixer.....	5.09 USD

Other Misc. Materials

Film Stock w/ Substrate.....	MKT *
Brushes and applicators.....	10.00 USD *
2 Oz Paper cups.....	2.00 USD
1 Box, Disposable nitrile gloves (medium).....	5.00 USD (link)

Travel Expenses

Roundtrip air travel from Denver.....	300.00 USD ²
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Per Diems

Kevin's Per Diem Rate.....	12.00 USD/day x 5 days = 60.00 USD
Andy's Per Diem Rate.....	TBD

Total estimated cost..... 426.42 USD

² Travel expenses based on estimates from Kayak.com

Frequently Asked Questions

Q: I've never worked with motion picture film before. Will that limit my experience?

A: While previous experience with working with motion picture film is not required for attending this workshop, it is highly encouraged that one at least study basic black & white negative processing prior to the workshop. Regardless, we will do everything possible to clarify any questions that you may have before, during or after the workshop.

Q: I have some film I would like to bring into the workshop to work with. Is this okay?

A: Yes, in fact we encourage participants to bring some processed film for printing in the workshop and/or objects for photogramming with.

Q: I would like to travel to attend the workshop, but I'm not certain if I can afford housing accommodations. Do you offer scholarship?

A: Unfortunately, we do not offer scholarship and because this workshop is taking place abroad, we do not have a pool of volunteers to draw from to help with accommodations. Our best suggestion would be to look into [couch surfing](#).

Q: I missed the opportunity to attend this workshop. Will you be running it again?

A: If the demand exist, absolutely. Send us an email or [message](#) requesting it.