NEGATIVE PROCESSING DIRECTIONS

Written by Terry Towery

1. Read this first and **practice** loading film onto your reel in the light. Take your tank, reel(s), film, bottle opener and scissors into a totally dark room.

2. Set up your workspace and memorize the location of all your tools and materials. **In total darkness** , take the rounded end of the bottle opener and open the end of the film that is flat (not the end with a "nipple" sticking out). It might take a few tries to get the metal cap off the canister. Push up on the nipple and the film will come out the opened end. Take the film out. Discard the metal canister and spool properly when the lights are on.

3. Feel the leading edge of the film and cut straight across the film about 3 inches past where the film begins to be full width. KEEP THIS LEADER, you will need it later.

4. Feed the film onto your reel. If it is plastic, pull the leader onto the reel past the two metal ball bearings. Using your thumbs, ratchet the film onto the reel. If the film and reel make a crunching sound you should start over. If it is metal you must "bow" the film slightly and start on the center.

5. Be gentle with the emulsion side (inner side as it goes on the reel) of the film. You can touch the smooth outer side as it is being wrapped on the reel. Before putting the reel in the tank it is necessary to cut the film loose from the spool using the scissors.

6. Once the film is loaded on the reel, feed it onto the center rod and put it in the tank and then place funnel like the cover on it and turn it to lock it. Once the film is in the canister the rest of the steps can be done in room light.

7. **Return to white light**. Using an accurate thermometer, measure the temperature of the developer and compute your developing time.
MIX YOUR CHEMISTRY AND CHECK ITS TEMPERATURE. **THE DEVELOPER IS DILUTED 1:9** all other chemicals are premixed for you. Temperature should be aprox 68F LOOK AT THE MASSIVE DEVELOPMENT CHART FOR **DEVELOPING TIME**

8. Tilting your tank slightly, pour in the developer. Timing begins as you start pouring, not when it is finished. Once all the developer is in the tank **gently** tap the tank against your hand to dislodge any trapped air bubbles. Using the agitation rod, vigorously agitate the film for 5 seconds every 30 seconds thereafter. When you have 10 seconds of developing time remaining begin pouring the developer out - down the drain. Discard the used developer; it is not toxic nor harmful to the environment.

9. Carefully pour in the **Stop Bath** and agitate for 30 seconds and pour out. Stop bath is an acid. Be careful, it will burn if it gets in cuts. Avoid your eyes.

10. Pour in the **Fixer**. Agitate for 30 seconds, then agitate for 10 seconds once a minute. Total time is **twice the clearing time** (approximately 4-6 minutes). In the school lab we reuse the Fxer until it no longer works. We know this by testing it with the HypoChek. FIX IS SAVED and the silver is recycled out. POUR INTO MARKED BUCKET.

11. Now, you can open the tank lid and remove the film and reel.

12. **Wash** in running water for 2 minutes.

13. Pour in **Fix-remover/hypoclear** for 2 minutes

14. Dump hypoclear back into the tank.

15. **Wash** for at least five minutes.

16. Prepare wetting agent (Photo Flo) by removing your film reels and center rod. Fill the tank with water and then put 4 drops of photoflo in the tank. Gently reinsert your reel(s) into the photoflo for about 30 seconds.

17. leave the PhotoFlo on, do not rinse it off. Remove the film and reel from the tanks .

18. Take the film off the reel—handle carefully. I

19. Hang in film drying cabinet. Drying time is approx. 15 minutes to 1 hour depending on temperature and humidity.

21. When bone dry, remove film, cut into strips of 5 or 6 and place in protective sleeves — one film strip per slot.