

# Film Developing in New Lab

## PREPARATION:

- A. Load film onto reel in loading tents. TOTAL DARKNESS is essential...***don't remove your arms until film is completely loaded!*** Place reel onto stem and into developing tank, lock funnel in place and close lid tightly. Remove tank from tent.
- B. Use wall chart to determine development time for your film at 68 degrees (20 degrees Centigrade.) The developer you will use is Lauder Formula 76 (a liquid generic version on Kodak's D76), in most instances used diluted 1:1 (1 part developer to 1 part water.) Minimum volume of total solution in single or double tank is 10 oz. of ***mixed*** solution for each roll of film. Single tank = 10oz, double tank = 20oz. Mix and temper developer in a graduate, NOT in the developing tank!  
For best results, be CERTAIN the temperature is 68 degrees (20 degrees Centigrade.) If not, consult the chart on the reverse to find the adjusted time. Now you are ready to begin processing.

## DEVELOPER – (See reverse or wall chart for dilution, temperature and development time for your film.)

1. Move to one of the processing sinks. Pour developer into tank quickly and evenly. (Start timing as you start pouring; do the same for each timed step.) *Gently* tap tank to dislodge air bubbles, then agitate for the first 30 seconds, gently tapping again upon completion. (For T-Max, Delta and Acros +
2. film, agitation should be vigorous.) Agitate 5 seconds of each 30 seconds for the entire development time, tapping after each agitation cycle. Agitation is very important to the proper development of the film. Be sure to follow the agitation method described in class exactly. Be consistent!

Discard the developer 10-15 seconds before finish time by pouring down the sink. (Developer and water are the only liquids not returned to their containers after use!)

## WATER RINSE – 30 Seconds

3. Pour water at approximately the same temperature as the developer into tank immediately after development time is complete. Agitate for 30 seconds. Pour water down drain.

**Remove excess water from exterior of tank, and move to the fixer sink, the narrow sink on the north wall.**

## FIXER – 3 minutes (5 minutes for T-Max, Delta and Acros)

4. Pour fixer at room temperature into tank. Agitate first 30 seconds and 5 seconds of every 30 seconds for remaining time. ***Return fixer to proper bottle. It is illegal to dump fixer down the drain!!!***

**Return to the processing sink to complete processing.**

## WATER RINSE

4. Fill the tank with water at room temperature and empty 3 times.

## PERMA WASH – 2 minutes

5. Pour PermaWash (Hypo Clear) at room temperature into tank. Agitate continuously for one minute. Allow to stand for one minute. Return to PermaWash bottle.

## WATER WASH – water-sparing archival process

6. Water should be 65-75°F. Do the following:
  - Fill tank with water, dump down drain.
  - Fill tank with water, agitate vigorously 10 times, dump down drain.
  - Fill tank with water, agitate 20 times, dump.
  - Fill tank with water, agitate 30 times, dump.
  - Fill tank with water, agitate 40 times, dump.

## WET AGENT – 1 minute

7. Drop reels into Wet Agent (Photo Flo) tub. Let sit for one minute. DO NOT AGITATE.
8. Shake reel to remove excess Wet Agent. **DO NOT TAKE APART REELS TO REMOVE FILM!!!**

## HANG TO DRY – 15 to 20 minutes

9. Do not sight-see; get your negatives into the drying closet as soon as possible! (Any dust that settles on the surfaces of the negatives will be permanent.) If interrupting a drying cycle that is in progress, note time remaining, then ***TURN OFF DRYER***; wait 10 seconds before opening doors to prevent pulling dust into the drying area. Close doors and reset timer.

## CLEAN-UP

10. Wash and dry tank, lid, reel, beakers and developing area! Return tank to tech booth, and beakers to the storage rack.