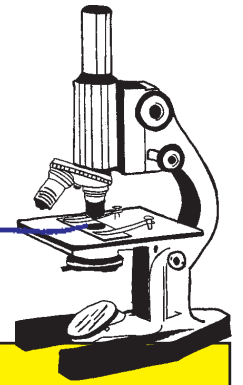


**A CURRENT
EDUCATIONAL
BULLETIN FOR
SUBMITTING LAW
ENFORCEMENT
AGENCIES**

A Closer Examination From The Benchtop...

UNDER the SCOPE



MISSOURI STATE HIGHWAY PATROL • CRIME LABORATORY DIVISION

PHONE: 573-526-6134
FAX: 573-751-9922



CAUTION: PRE-PROCESSING PRINTS (WITH CHEMICALS OR EXCESSIVE DUSTING/FUMING) CAN RESTRICT OUR ABILITY TO RECOVER LATENTS.

LATENT PRINTS IN BLOOD MAY BE DESTROYED IF BOTH DNA AND LATENT PRINT EXAMINATIONS ARE REQUESTED. IF POSSIBLE, PRIORITIZE YOUR EXAM REQUESTS.

THE PRINTS SECTION AT THE NEW TROOP D SATELLITE LABORATORY IN SPRINGFIELD IS UP AND RUNNING WITH CASE WORK PROCESSING! THE NEW LAB HAS THE EXACT SAME CAPABILITIES AS THE GENERAL HQ LAB IN JEFFERSON CITY. ONE EXCEPTION: AFIS IS CURRENTLY NOT AVAILABLE AT SPRINGFIELD, BUT THE PRINTS CAN BE SENT TO JEFFERSON CITY FOR ENTRY.



**MAY, 2009
VOLUME 9 • ISSUE 1**



We're Dyeing To ID Your Prints!

New and improved techniques are being implemented throughout the laboratory, and the Latent Prints section is keeping pace. Several recent advancements in the fingerprint area have resulted in even more valuable identification tools for officers to use. To assist your agency in obtaining the best possible fingerprint information for identification, the criminalists in the MSHP lab's latent print sections would like to bring your attention to several changes and updates.

Caught You Whole-Handed!

For years, the Prints section has processed casework which resulted in palm prints. Agencies have received numerous reports advising that palmprints were developed, but currently could not be searched in the Automated Fingerprint Identification System (AFIS) fingerprint database. The only way for an identification to be made was to have an actual palmprint from the victim(s), suspect(s), or elimination(s).

After an expansion of the database capabilities, AFIS can now search palmprints through the database. Even though palmprints are now eligible for AFIS entry, it is still a good practice to submit palmprint impressions for all of the individual(s) associated with a case.

Give me Five!

But not your five! Please wear gloves when processing latent print evidence, with frequent glove change. Prolonged glove use may cause sweaty hands, which can result in leaving YOUR latent print through a latex glove. Too often, the lab compares prints developed from a crime scene only to identify the officer who made the lifts or handled the item, which is time consuming for the lab and delays identification of the true individual(s) under investigation. We do not enjoy identifying YOUR print any more than you enjoy us calling you to tell you we have an identification in the case--and it is YOU!

How About Those Digits!

Latent print examiners in our lab now have the ability to print tenprint cards from the MSHP Criminal Records and Identification Division

(CRID) instead of requesting them. In order to make this process efficient, agencies should provide the following information on the SHP-411 Lab Analysis Request form: *Name of Individual, Date of Birth, Social Security Number, SID Number, and/or FBI Number.* Analysts, however, still prefer to have known tenprint and/or palmprint exemplars submitted from any individual(s) associated with a case, rather than just assuming they are in the database.

Who Says We Can't Do That?

The Print section has recently validated and brought on-line dye staining techniques that allow detection of friction ridge prints that may not be visible by any other means. Certain properties of perspiration, body oils, and/or foreign substances contained in latent print residue fluoresce when a fumed latent is treated with a dye stain and exposed to a laser or alternative light source. Latent Print examiners can visualize and photograph latent prints developed through using these dye staining procedures, and then make comparisons to known prints.

Here We Go Again!

When resubmitting evidence to the lab, be sure to let the lab evidence technicians know that you are indeed resubmitting evidence in a case. They will reference the original lab number so that a new case number is not assigned. Abiding by this request will streamline the evidence processing and paperwork tracking. Remember this hint if you choose to resubmit your palmprints for further evaluation.

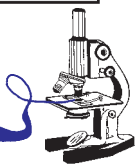
Size Makes A Difference!

All latent print lift cards and/or tenprint cards submitted to the lab or AFIS should be packaged in a 9.5" X 12" manila or white envelope. A suitable envelope is available free upon request: either use the SHP-415B order number for MSHP employees, or simply ask the lab evidence technicians at the lab counter.



**CONTINUED
ON THE BACK...**

We're Dyeing To ID Your Prints



Placing your cards in an envelope of this size ensures safer storage, better evidence handling, and easier processing and retrieval for AFIS. Another reason that undersized envelopes are discouraged is that our lab barcodes are 1.5" X 4", and they could cover valuable information on the container or get covered by evidence tape with the final seal.

Four Labs For Your Convenience!

The MSHP Lab System has four labs offering fingerprint services: General HQ in Jefferson City at 573-526-6134; Troop D Satellite in Springfield at 417-868-9400; Troop E Satellite in Cape Girardeau at 573-290-5130; and Jasper County Satellite in Carthage (available Fall, 2009).

The Prints section can do more for your fingerprint case than ever before. However, the key to quality latent print results begins with your agency. Your attention to detail, such as wearing gloves, proper evidence collection and packaging, quality tenprint cards (including palm prints), etc. greatly assists the criminalists with developing and comparing latent prints. If you have questions, please contact the latent print section.

Do not submit latent print lifts and/or tenprint cards in small packages. Small envelopes are not conducive for lab labeling and barcodes that must be placed on the outside of the containers. In some instances, further evidence needs to be placed back inside the container, so please leave us plenty of room (see below).

The proper size for latent print and/or tenprint card submission to the lab or AFIS should be 9.5" X 12" (see right). This envelope is free upon request (for Troops, use the SHP-415B form; for other agencies, ask for the envelopes at the lab counter).

Do not submit lifts or tenprint cards together with other evidence intended for other lab disciplines, such as DNA swabs. Where possible, keep evidence for each lab section separated.

This piece of foil could present difficulties for the latent print processor. Items such as this have wrinkles, and any lifts would have this wrinkle pattern through potential prints. Moreover, the background is reflective, so latent prints could be lost in the reflection of the light from the background (left).

With dye staining technology, latent prints will fluoresce with an alternate light source (or laser). The fingerprint now "pops" out and is no longer lost in the background. Wrinkles are no longer a problem, because the print is photographed (not lifted as with traditional fuming and powdering) and comparisons can be made directly to the print in the photograph (right).