

GRITS FOR BREAKFAST

WELCOME TO TEXAS JUSTICE: YOU MIGHT BEAT THE RAP, BUT YOU WON'T BEAT THE RIDE.

SATURDAY, OCTOBER 09, 2010

Brady violations by DPS fingerprint examiners? Is fingerprint examination even science?

There was an astonishing moment yesterday at a breakout session on fingerprint examination at the [Texas Forensic Science Seminar](#), at which Department of Public Safety fingerprint examiner Bryan Strong (who seemed like a really nice guy so I hate to pick on him) was describing how his division implemented the ACEV method of fingerprint examination in ways that may violate the state and prosecutors' obligations under [Brady v. Maryland](#).

ACEV stands for Analysis, Comparison, Evaluation and Verification. That's bureaucrat-speak for looking at the fingerprints visually and subjectively deciding if they're the same based on "training and experience" (as opposed to any sort of objective standard), then having a second examiner look at them to "verify" the results. There is no minimum number of similarities or comparison points required to declare two fingerprints a "match," though many other countries have established such standards. (Notably, at DPS if an examiner finds fewer than 11 points of comparison, two people must verify the conclusion.)

Anyway, Mr. Strong described what happens when the first examiner finds a match but the verifying analyst doesn't agree. In such instances, he said, they notified their supervisor and all of them conferred to make a decision. A defense attorney in the crowd asked what seemed to me an obvious question: When two examiners originally disagreed but a supervisor resolved the issue in favor of a match, was that disagreement recorded in the final report? No, replied Strong, only the conclusion. At this, the audience began to murmur and fidget. Somebody from the back cried out, "Have you ever heard of Brady v. Maryland?," which is the US Supreme Court case requiring the state to turn over all exculpatory evidence to the defense before trial. No he had not, replied a credulous Strong, a statement which elicited an audible gasp from the crowd.

So essentially, if two examiners who looked at the prints come to different conclusions but a supervisor resolves the question against the interests of the defendant, according to this presentation, that information is not routinely

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AUSTIN, TEXAS

Grits for Breakfast looks at the Texas criminal justice system, with a little politics and whatever else suits the author's fancy thrown in. All opinions are my own. The facts belong to everybody. [About Me](#).

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disclosed to defense counsel. On its face that's a straightforward violation of Brady. Who knows how many times that scenario has occurred over the years!

A representative from the Texas Attorney General's office then asked Mr. Strong if his division had access to legal counsel at DPS, and he said he believed they did. She told him politely (if somewhat obliquely) that it appeared there were some legal issues surrounding the division's work that he wasn't aware of (problems that likely emanated higher up the chain of command than Strong's level, she gently added) and offered her agency's assistance to retrain folks at the fingerprint examination division on the subject!

There was quite a bit of discussion of fingerprints at the event, some of the most interesting by Dr. Jay Siegel, a forensic scientists who was on the 17-member National Academy of Sciences panel which published a [damning report](#) last year calling into question the scientific basis of "pattern evidence," where visual comparisons were the basis for connecting evidence to a defendant. Fingerprints are by far and away the most common and important type of pattern evidence. Siegel says 60% of fingerprint analysts don't actually work in crime labs - they're sworn police officers working in their own departments.

The most high-profile case of a mismatch was that of Brandon Mayfield, an Oregon attorney falsely accused of the Madrid train bombing after four examiners mistakently identified him using the ACEV method. (See the USDOJ Office of Inspector General's [report](#) [pdf] on that case.)

Siegel cited eye-popping data from a study published in the 1990s in which the umbrella organization for fingerprint examiners, the International Association of Identification, performed proficiency testing on their own members and came up with a *19% false-positive* rate! Though I can't find the study online, I did find this apparent reference to it in an [article from the Los Angeles Times](#):

In a 1995 IAI-approved proficiency test, 22% of the test takers identified the wrong person one or more times. In addition, 36% could not identify prints that test givers said they should have been able to match, which means that a guilty person could have gone free in a real case.

Ken Smith, chairman of IAI certification, suggests the error rate may not fairly represent the profession because the test takers were anonymous and there was no way to determine their credentials.

But fingerprint examiner David Grieve, editor of the Journal of Forensic Science, said in an article that the test results were alarming and noted that reaction in the forensic science community "ranged from shock to disbelief."

That's just one study, Siegel emphasized, and more research is needed in the area, but it's certainly a stunning result. The day before Dr. Joe Bono, President of the American Academy of Forensic Sciences, had said a technique which had a 30-

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40% error rate (the Horizontal Gaze Nystagmus test for intoxication used in DWI enforcement) didn't qualify as "science." I asked him if a technique resulting in a 19% false positive rate constituted science, but he demurred, saying he hadn't seen the fingerprint study. Siegel said proficiency testing of all forensic examiners, including those dealing with fingerprints, should be "blind," i.e., given to the examiner as part of their routine work so they didn't know they were being tested.

A good argument for the "blind" testing approach may be found in the work of cognitive neuroscientist Itiel Dror, which Dr. Siegel cited and which has previously been [discussed on this blog](#), who conducted a study in which five fingerprint examiners were given pairs of prints which they'd earlier personally matched during their own career. This time, however, they were told the prints were from the Brandon Mayfield case, which had already been well-publicized. The result: Three of them reversed their conclusion, saying the prints they'd previously "matched" did not come from the same person. A fourth said the results were inconclusive. Only one of the five stuck to his guns and said the prints came from the same person!

This makes me wonder if the ACEV approach itself is fundamentally flawed by bias. If knowledge of another examiner's conclusions can so easily taint results, it shouldn't be the case that the second analyst should know that they're being called on to "verify" someone else's match, which implies someone else already reached a conclusion. It seems to me it'd be much cleaner to give the prints to the second examiner without telling them what the first examiner found.

Siegel concluded that there's no scientific proof fingerprint examination (or for that matter, other pattern evidence) can "individualize" their results to the exclusion of other possible sources. Indeed, searching around this morning for the IAI study, I ran across [these comments from Dr. Siegel in another forum](#) last year where he persuasively argued that individualization isn't even necessary:

Not only do I believe that a conclusion of absolute inclusion is not scientifically justified but that it is not necessary. I don't believe that the concept of "individualization" has any place in science and is not provable in the real world. Why is it necessary to offer a nonsupportable, unprovable conclusion in court, where there is so much at stake and juries are so easily misled? When a forensic scientist analyzes evidence that is brought to the lab by a criminal investigator, there is a reason why the focus is on that person. (This can set up a situation that invites bias on the part of the examiner, but that is another issue). The fact that there are many similarities between a latent print lifted at a crime scene and a print from a suspect, with no unexplainable differences, should be testimony enough. This would presumably be one piece of corroborating evidence in a net of evidence being offered by the prosecutor. There is no need to "guild the lily" by adding the conclusion that there is no other fingerprint in the world that could be the source for the print from the crime scene. Offering unsupportable conclusions in court reinforces the idea that forensic science really isn't

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science; it is a tool of the prosecution.

That position makes a lot of sense to me. The conclusion of a fingerprint "match" by an "expert" is an incredibly damning piece of evidence when really all they're saying - that anyone can prove - is that there are similarities between the two prints. There were also similarities between Brandon Mayfield's print and the Madrid train bomber's, but that didn't mean Mayfield did it.

POSTED BY GRITSFORBREAKFAST AT 9:10 AM



LABELS: [CRIME LABS](#), [FINGERPRINTS](#), [FORENSIC ERRORS](#)

10 COMMENTS:

Anonymous said...

Another type of pattern evidence is microscopic sperm cell identification (from sexual assault evidence). The crime lab I know uses the "Christmas Tree" staining procedure where the sperm bodies become stained pinkish and the tails become stained green. The problem is...most sperm cells easily lose their tails over time and just about everything else on the microscope slide also becomes pink-stained (other cell-types and debris or whatever). So identifying a pink oval object on a microscope slide becomes extraordinarily subjective. If two analysts don't agree that a particular pink blob on a slide is a sperm cell, a supervisor is supposed to make a decision. And if the supervisor says "yes it is", the results are recorded as "positive" and the dissenting opinion is not recorded. A single sperm cell might be enough evidence to get a guilty plea to sexual assault. Sounds like another case of a Brady Violation.

10/09/2010 04:09:00 PM

Anonymous said...

It seems some Measurement Systems Analysis tools such as commonly used in industry are called for.

This just blows me away. When someone in these crime labs is feeling a little sick do they bleed 'em with leeches?

10/09/2010 06:33:00 PM

Thomas Hobbes said...



Since you seem interested, how might I forward to you information about the 1995 IAI study?

10/09/2010 10:20:00 PM

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Anonymous said...

"A representative from the Texas Attorney General's office then asked Mr. Strong if his division had access to legal counsel at DPS, and he said he believed they did. She told him politely (if somewhat obliquely) that it appeared there were some legal issues surrounding the division's work that he wasn't aware of (problems that likely emanated higher up the chain of command than Strong's level, she gently added) and offered her agency's assistance to retrain folks at the fingerprint examination division on the subject!"

So to me... this sounds like a discovery/admittance of sorts that the DPS fingerprint exam division has not been following a legal precedent as established by the Brady case (forgive me if I am using the wrong words, hopefully you can figure out what I am saying).

My question is, now that it has come to light that DPS was not doing what it should legally have done, what kind of can of worms might this open?

Will the TX AG office just retrain DPS employees, and an attitude of no harm, no foul be taken? Or will this open up the possibility of some kind of appeal being filed by a person who was convicted based on fingerprint evidence? Thus leading to more appeals based on this technicality?

Long story short... what are the possible ramifications of these "legal issues surrounding the division's work" now that it has been brought to light?

10/09/2010 10:49:00 PM

Anonymous said...

Yes, we must discredit fingerprint evidence as well.

The criminal defense attorney's goal when formulating strategy is to discredit the prosecution's evidence and obtain a "not guilty" verdict at the trial. Everything must be discredited. No matter what, the goal is to have the defendant walk out the door a free man.

10/09/2010 11:40:00 PM

Gritsforbreakfast said...



Thomas, send it to shenson@austin.rr.com.

11:40 - Re-read the final quote from Siegel and my conclusion. I don't think fingerprint evidence should be kept out of court, but subjective

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comparisons shouldn't be confused with "science" and they shouldn't be allowed to overstate their conclusions or hide conflicting views among analysts from the defense.

10/10/2010 07:28:00 AM

Anonymous said...

11:40 You have heard of the concept of garbage in, garbage out? Or to quote "For making correct decisions, relying on a measurement system and the same for the statistical method used, is necessary as it could be said, when the data quality are low the benefits of a measurement system is also low; likewise when the data quality is high, the benefit is high too."

Do you believe the state (We the people) have an interest in treating fingerprint examination as a revealed religion?

This is are you smarter than a fifth grader stuff. You propose a system in which in our state crime labs crimes are committed. For what interest does this serve? Certainly not the Due Process clause.

10/10/2010 09:08:00 AM

FT said...



"information about the 1995 IAI study?"

Will you please post the link on GRITS for the rest of us that may want to read it? Thanks.

10/10/2010 11:44:00 AM

Anonymous said...

"No matter what, the goal is to have the defendant walk out the door a free man."

No, the goal is for the trial to be fair and for the prosecution to prove its case. If I were to take you ignorant attitude and apply it to the other side I might say: "the goal is to convict the defendant, guilt or innocence doesn't matter."

How about we just do away with those pesky defense attorneys. Then we wouldn't need trials. You get arrested you go straight to prison. Its because of those defense attorneys that we have 4th amendment rights. The courts have set limits on the things police can and cannot do in cases where, the

***Well, I don't wear a Stetson
But I'm willing to bet, son,
That I'm as big a Texan
As you are.***

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issues were pressed by those sleazy defense attorneys. If it weren't for them, there would be nothing to stop the police from stopping people at random on the highways, searching their cars with no probable cause, taking you to the station for a little "questioning", or from coming into your home and searching just because they feel like it, etc. etc. And, here's the kicker, in most of those cases where courts set those limits, the defendant was actually guilty. But, there's a basic concept that seems simple but so many people seem to lack the insight to grasp. If we don't protect the other guy's rights, even the guilty, we lose our own. You need to be thanking those defense attorneys. While the 4th amendment is pretty weak at this point, the only reason it has any life at all, and the only reason you enjoy any of those rights and protections is because of defense attorneys.

10/11/2010 10:11:00 AM

Anonymous said...

To clarify from being at the conference and having some idea of what the procedures are in fingerprint labs, etc., I don't think DPS was intentionally concealing the information. The problem is a misunderstanding between the lab, the prosecution, the defense bar, and the courts, which is the case with many labs.

These labs don't hide or leave out the information. They document the disagreement or non-verification in the file. They just don't put it in the report. The problem is that most of these lab employees have been under the belief that defense counsel had access to the file, that the prosecution had access to or read the file, that everybody was on the same page and knew what was going on. They have been wrong, but that doesn't show any bad faith.

The goal of conferences like these with all parts of the system involved is so that people from each area can communicate. It appears that something good may come of this one-- labs are now aware, or at least this one is, of the steps they need to take and procedures they should put in to place.

It isn't the place of Bryan Strong to know legal precedent and this was not his fault. This was a breakdown in communication that became clear in a very public way, a lack of communication from all parties. As for the offer from the AG for legal help, my question is why they weren't there before. It is their job, as attorneys for the state, to know this legal precedent and make sure it is followed. The fault goes to the attorneys for the state, not to the lab techs. Blaming the crime lab for not knowing the legal precedent when they are non-lawyers is the same as blaming a judge for not knowing all the medical facts needed in an operating room for a malpractice case.

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The judge has to rely on experts to tell him or her what should go on.

I really hope this puts some light on where the problems are with the system and where it needs to be fixed. As for "casting doubt" by defense counsel, if two experts disagree, the doubt is there already. For that information to be brought before the jury is what the people who founded our country had in mind. To keep it from them or not tell the defendant, his attorney, or anyone on his side that it existed is just wrong.

10/11/2010 11:38:00 AM

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