

CLM August 22, 2016

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Colleagues,

Normally, this message contains some pertinent information about something that ASCLD is doing, an update on some forensic initiative, or news about an upcoming training or event.

I want to take a few moments this week, however, to draw your attention to what has happened recently in Louisiana. Over the last week, flooding has devastated parts of Louisiana in what the Red Cross has called the worst environmental tragedy since Hurricane Katrina. Many predict that the ultimate financial impacts may actually be greater. Areas in Louisiana have flooded, particularly the Baton Rouge area, where they have never flooded before, and to that end, many did not have insurance. The photos and videos circulating in the news media and over the internet tell a fuller story – and it is terrible.

I bring this to your attention because we have forensic scientists and crime lab employees in the area that have been affected. Currently, there are almost 20 crime lab employees in the region, among multiple agencies, that have lost everything they own. Your ASCLD Board of Directors is working earnestly to set up a program whereby you can help assist those individuals if you desire. I wanted to be able to share the details with you in this message, but the logistics will simply need a couple more days to be ironed out.

For now, please keep your fellow public servants in your thoughts and prayers. Please watch your email in the coming days for opportunities that you can help support the public servants that serve criminal justice in Louisiana.

Kindest regards,  
Jeremy Triplett



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## Research Reports

NIJ Forensic Science R&D Reports for ASCLD Crime Lab Minute Vol 5

These research reports have been submitted by the National Institute of Justice (NIJ) especially for their relevance to crime laboratory activities. ASCLD has not reviewed nor does it necessarily endorse the findings of this research.

[Justice Department Issues Draft Guidance Regarding Expert Testimony and Lab Reports in Forensic Science](#)

The Justice Department announced today the release of draft guidance documents governing the testimony and reports of the department's forensic experts. These documents, available for public comment through July 8, are designed to ensure that department forensic experts only make statements in the courtroom and in laboratory reports that are supported by sound science.

Using Forensic Botany to Aid Law Enforcement Investigations

The work of NIJ-supported researchers from Sam Houston State University, was recently featured in [Newsweek](#), [Houston Matters](#) and [Forensic Magazine](#). Their study uses DNA genotyping of plants to identify exact DNA fingerprints of specific plant life. For example, identifying the exact DNA of marijuana strains could link samples back to their distributors or the DNA of pollen samples could also be used to link pollen evidence to crime scenes.



[ANSI-ASQ National Accreditation Board \(ANAB\)](#) ANAB provides accreditation for ISO/IEC 17025 forensic test laboratories and ISO/IEC 17020 forensic inspection agencies and a wide variety of training, workshops, and academic programs.

ISO/IEC 17020 and Audit Preparation for Forensic Police Agencies  
[September 15-16, 2016, Alexandria, VA](#)  
Cost: ASQ member \$600, non-ASQ member \$650

ISO/IEC 17025 and Audit Preparation for Forensic Test Agencies  
[September 12-14, 2016, Alexandria, VA](#)  
Cost: ASQ member \$750, non-ASQ member \$800

[ASCLD-LAB Training](#)

Training classes to help forensic laboratory personnel understand the requirements of ISO/IEC 17025 General Requirements for the Competency of Testing and Calibration

### The Use of E-Cigarettes for Illicit Drugs

The work of NIJ-supported researchers from Virginia Commonwealth University, was recently featured on the [university website](#) and in an upcoming NPR interview. Their study explores how drug users are using e-cigarette devices to vape illicit drugs. The team is testing the output of various illicit drugs from an e-cigarette device and whether increasing the voltage on the device would increase the dose delivery. Part of this project will also test claims that e-cigarettes are "safer" than the alternatives.

### [Forensic Science: A Time of Transformation](#)

This NIJ Journal article addresses some of the ongoing discussions in the forensic, legal, and law enforcement communities over the roles of science and forensic science and the certainty of testimony presented in the courtroom. The article gives special attention to problems related to expressing certainty in non-DNA forensic evidence fields, such as trace evidence, latent prints, and firearms.

### [Error Rates for Latent Fingerprinting as a Function of Visual Complexity and Cognitive Difficulty](#)

Comparison of forensic fingerprint images for purposes of identification is a complex task that, despite advances in image processing, still requires highly trained human examiners to achieve adequate levels of performance. This NIJ-supported project examined the relationship between the measurable, visual dimensions of fingerprint pairs and the level of comparison difficulty for the examiners. The research found that error rates are a function of comparison difficulty and showed that it is limiting and even misleading to talk about an overall error rate for the field as a whole. The researchers noted that one of their experiments provides strong evidence that prints vary in difficulty and that the variations affect the likelihood of error.

### [Improve the PDQ Database to Enhance Investigative Lead Information from Automotive Paints](#)

In a hit-and-run incident with no witnesses, investigators are often left with automotive paint layers recovered from the victim's clothing as evidence. Modern automotive paint systems consist of several layers – a clear coat over a color coat over two layers of undercoating. In this project, NIJ-supported researchers at Oklahoma State University developed infrared prefilters and a cross correlation algorithm for searching the Paint Data Query (PDQ) automotive database. A prefilter was developed to differentiate automotive paint samples by automobile manufacturer using the clear coat and undercoat paint layers. The algorithm can determine the assembly plant where the vehicle was made.

### [Investigating the Impact of Forensic Evidence Testimony on Juror Decisions](#)

Under this NIJ-supported project, Arizona State University researchers conducted three different experiments to study different aspects of forensic expert testimony. In the first experiment, juror responses were analyzed to see if the impact of having the type of method scientifically-validated influenced jurors. They found that experience of the expert influences jurors more than the type of method in terms of credibility; but this may not have been translated into verdicts. The second experiment dealt with the forensic expert's level of certainty over whether there is exculpatory evidence. Researchers found that exculpatory evidence did not weigh heavily on the mock jurors initially, but during the deliberation the presence of exculpatory evidence became equally as influential as other evidence. Finally, the third experiment investigated the influence of whether the forensic expert concedes that the analysis may include errors. The study found when the trial involved bite mark analysis, the concession decreased the value of the evidence; when the case was a fingerprint analysis, the concession actually increased the certainty of the analysis.

Laboratories.

[ASCLD/LAB-International Assessor Training Course for Testing Laboratories](#)  
[ASCLD/LAB-International Assessor Training Course for Breath Alcohol Calibration](#)  
[ASCLD/LAB-International Internal Auditor Training Course](#)  
[ASCLD/LAB-International Preparation Course for Testing Laboratories](#)  
[ASCLD/LAB-International Preparation Course for Calibration Laboratories](#)

[American Association for Laboratory Accreditation \(A2LA\)](#)  
 A2LA's Training Program



[Bode Cellmark Forensics](#) provides advanced forensic solutions offering crime labs ways to reduce their workloads and budgets.

Bode's newest offerings include:

[Sexual Assault Kit Backlog Reduction Program](#) streamlines processes to eliminate backlogs of untested sexual assault kits.

[Bode Buccal 2™](#) is uniquely designed to improve DNA databanking collecting and automate processing. The Bode Buccal 2 is a DIRECT COLLECTION SYSTEM that requires minimal training. There is NO Transfer Step Required.

[Independent Validation Services](#) are customized to meet your laboratory's needs. Validation services provide completely unbiased analysis on your equipment, chemistries, or process.

## [Employment Opportunities](#)

[Supervisory DNA Analyst](#), CAMRIS International, Dover, Delaware, Expires: November 22, 2016

[Nuclear DNA Analyst](#), CAMRIS – Dover, DE, Dover, Delaware, United States, 19901, Expires: November 20, 2016

[Assistant Technical Leader \(Mid-Senior Level\)](#), CAMRIS International, Dover, DE, Expires: November 20, 2016

[Senior Forensic Toxicologist \(Chemist\)](#), CAMRIS International, Dover, Delaware, United States, 19901, Expires: November 22, 2016

[Mitochondrial DNA Analyst](#), CAMRIS International, Dover, Delaware, United States, 19902, Expires: November 20, 2016

[Tenure Track Faculty Position: Assistant/Associate Professor in Forensic Science Department](#), University of New Haven, West Haven, Connecticut, Expires: November 20, 2016

[Crime Lab Scientist- Impressions](#), Georgia Bureau of Investigation, Decatur, Georgia, Expires: August 30, 2016

[CHIEF FORENSIC LABORATORIES](#), The Los Angeles County Department of Medical Examiner – Coroner, Los Angeles, CA, Expires: November 15, 2016

**[Examining the Effects of Environmental Degradation on the Optical Properties of Manufactured Fibers of Natural Origin](#)**

Synthetic fibers derived from natural, biological sources – known as Manufactured Fibers of Natural Origin (MFNOs) – are becoming increasingly popular in textiles and clothing. NIJ-supported researchers at the McCrone Research Institute theorized that because the underlying polymer in MFNOs is naturally derived, the materials are more likely to be affected by environmental conditions over time, and any changes in their optical and physical properties due to degradation may have consequences in the forensic laboratory. The researchers evaluated three types of MFNOs exposed to six different environments and found that the properties of the materials were largely unchanged. Some samples showed morphological changes when exposed to ultraviolet light or submerged in water, but “these results may potentially strengthen an association if the same optical and morphological changes are seen in both the questioned and known MFNO fibers.”

**[Identifying and Communicating Genetic Determinants of Facial Features: Practical Considerations in Forensic Molecular Photofitting](#)**

Researchers at Pennsylvania State University, with NIJ funding, utilize the modeling of human facial features so that they can be analyzed and then related to underlying genetic variation. An important finding of the project is methodology for giving researchers a way to work with facial features to accomplish new analyses especially in helping to identify the roles played by variation at particular genes. By jointly modeling sex, genomic ancestry, and genotype the independent effects of particular alleles on facial features can be uncovered. Results on a set of 20 genes showing significant effects on facial features provide support for this approach as a novel means to identify genes affecting normal-range facial features and for approximating the appearance of a face from genetic markers.

**[The Effects of Acquisition of Blood Specimens on Drug Levels and the Effects of Transportation Conditions on Degradation of Drugs](#)**

NIJ-supported researchers from the Iowa Department of Public Health address the practitioner need of examining three different peripheral blood specimen collection/shipping procedures in order to determine whether significant differences in drug concentration could be detected.

**[Separation and Identification of Drugs of Abuse Using ESI-IMS-MS](#)**

This NIJ-supported research by Florida International University developed a method for performing rapid and inexpensive analyses of seized drugs commonly encountered by law enforcement, particularly controlled amphetamine substances and the emerging designer drugs that are similar in structure to amphetamine-based substances. The results suggest that chiral separation by an achiral modifier in the gas phase and the detection and identification of designer drugs are possible using the ESI-IMS-MS with an optimal solvent system.

**[Microfluidic System for Automated Dye Molecule Extraction and Detection for Forensic Fiber Identification](#)**

This NIJ-supported project succeeded in identifying and creating the optimum extraction conditions for different dyes and fabrics, and it developed an automated microfluidic dye extraction system that produces these conditions. This report provides information on the extraction solvent, the extraction chamber material, cavity shape, valve configurations, extraction temperature, and the macro fluidic extraction and analysis. The developed system enables objective comparisons of fiber dyes and a statistical error calculation useful in court testimony.

**[Forensic DNA Technical Leader](#)**, Mitotyping Technologies (Division of Health Network Laboratories, State College, PA, Expires: October 17, 2016

**[Laboratory Director, Identity Testing](#)**, Mitotyping Technologies (Division of Health Network Laboratories, State College, PA, Expires: October 17, 2016

**[Criminalist Firearm and Fingerprint](#)**, City of Canton, Canton, OH, Expires: September 2, 2016

**[Forensic Scientist – Latent Print Examiner](#)**, City of Durham Police, Durham, NC, Expires: September 1, 2016

**[Forensic Scientist Lead: Latent Print Examiner](#)**, City of Durham Police, Durham, Expires: August 31, 2016

**[Computer Evidence Specialist I, II, or III](#)**, Onondaga County Forensic Laboratories, Syracuse, NY, Expires: August 26, 2016

**[Criminalist DNA Analyst](#)**, Charlotte Mecklenburg Police Department Crime Lab, Charlotte, NC, Expires: August 29, 2016

**[Assistant Director of Toxicology, Controlled Substance and Chemistry](#)**, Department of Emergency Services & Public Protection – Division of Scientific Services, Meriden, CT, Expires: August 31, 2016

**[Analytical Chemist I – Forensic Chemistry Unit](#)**, Delaware Division of Forensic Science, Wilmington, DE, Expires: August 31, 2016

**[Assistant Director of Toxicology, Controlled Substance & Chemistry](#)**, Connecticut Department of Emergency Services & Public Protection – Division of Scientific Services, Meriden, CT, Expires: October 3, 2016

**[Forensic Scientist 1 – DNA \(2 Sponsored Term Funded Positions\)](#)**, New Mexico DPS Forensic Laboratory, Santa Fe, NM, Expires: August 22, 2016

**[Forensic Scientist 2 – DNA \(3 Sponsored Term Funded Positions\)](#)**, New Mexico DPS Forensic Laboratory, Santa Fe, NM, Expires: August 22, 2016

**[Supervising Criminalist – Crime Scene Investigations](#)**, Washoe County Sheriff's Office Forensic Science Division, Reno, NV, Expires: September 2, 2016

**[Forensics Manager](#)**, City of Omaha – Omaha Police Department, Omaha, Nebraska, Expires: August 22, 2016

Ohio State Highway Patrol Crime Lab, Columbus, Ohio, Expires: September 8, 2016  
**[Forensic Latent Print Examiner / Crime Scene Technician](#)**, Valdosta-Lowndes Regional Crime Laboratory, Valdosta, Georgia, Expires: September 5, 2016

**[Forensic Scientist – Quality Assurance](#)**, Virginia Dept. of Forensic Science, Richmond, VA, Expires: August 31, 2016

**[Criminalist, Level II](#)**, New York City Office of Chief Medical Examiner, New York, New York, Expires: December 30, 2016

**[Forensic Examiner – DNA 1](#)**, ORAU, Ft. Gillem, GA (& OCONUS), Expires: August 31, 2016

**[Forensic Examiner – Latent Print 1](#)**, ORAU, Ft. Gillem, GA (& OCONUS), Expires: August 31, 2016

**[Forensic Examiner – Firearms and Tool Marks](#)**, ORAU, Ft. Gillem, GA (& OCONUS), Expires: August 31, 2016

**[Forensic Chemist](#)**, ORAU, Ft. Gillem, GA (& OCONUS), Expires: August 31, 2016

**[Assistant/Associate Professor of Forensic Science](#)**, Department of Forensic Science, College of Criminal Justice, Sam Houston State University, Huntsville, Texas, Expires: December 31, 2016

## [News Around the Globe](#)

[HPD Wants Its Crime Scene Unit Back. Crime Lab's Civilian Leadership Says No Houston Press](#)

The Houston Forensic Science Center admits that hiring a call center to dispatch the .... Since DNA technology is becoming more sensitive and collection requires more ... To Stout, it doesn't start with giving the crime lab back to HPD

[Simpson's DNA is linked to Nicole and Ron Goldman's murders New York Daily News](#)

The DNA tests conducted so far implicate the "defendant," wrote lead ... director of the LAPD crime lab, at a preliminary hearing in his murder case

.....  
[Straight facts about DNA crime lab Albany Times Union](#)

In recent weeks, the Times Union published a story and editorial involving training exams that were conducted at the State Police Forensic

[How Essex's forensic teams, who investigate everything from robberies to murders, help secure the](#)

...  
[Echo](#)

AS a crime scene investigator in Basildon, Vikki Smith attends up to eight jobs a day lifting fingerprints, .extracting DNA and searching for alien objects

[Bali Police claim murder suspect's blood found at crime scene after officer found dead - Yahoo7 Yahoo7 News](#)

Bali police claim a murder suspect's blood was reportedly found at a crime ... "From the forensic lab result we found two types of blood on the crime

[IU student: 'this was the same person who tried to attack me Indianapolis Star](#)

NASHVILLE, Ind. — Jurors heard hours of testimony on Tuesday from a DNA expert who said Hannah Wilson's DNA was found in blood on Daniel

[OPD sex crimes unit making progress under federal consent decree, monitors say NOLA.com](#)

Lead monitor Jonathan Aronie said that while the sex crimes unit still needs ... State Police to track and test rape kits at the state police's crime lab

[Mobile Meth Lab Bust Part of Broome County's ... Plan to Reduce Crime TWC News](#)

As Broome County continues to battle a high crime rate, there has been a major crackdown on meth labs. ... Early Friday morning, Binghamton police mapping

Mapping Pre-Crime' in Rio'

CrimeRadar is the world's first publicly available crime-forecasting tool based on open-access data. But will it work

[Digital forensic lab, new gadgets to fight crime](#)

[The Sunday Times Sri Lanka](#)

Facial recognition technology to track down criminals will be among new facilities available at the government's first digital forensic lab due to start

[The Sunday Times Sri Lanka](#)

Facial recognition technology to track down criminals will be among new facilities available at the government's first digital forensic lab due to start

...  
[Australian Federal Police's new digital forensics lab](#)

## [Forensic Conferences](#)

WVU Forensic Management Academy  
August 28 – September 2, 2016  
Six days on-site in Pittsburgh, PA  
Click [here](#) for course description and registration.

Sep 18-23, 2016: [International Symposium on the Forensic Sciences](#) – Auckland, New Zealand

Oct 3-7, 2016: [Midwestern Association of Forensic Scientist \(MAFS\)](#) – Branson, Missouri

Oct 2016: [15<sup>th</sup> Annual AFQAM Conference](#) – Little Rock, AR  
Oct 16-21, 2016: [Society of Forensic Toxicologists](#) – Dallas, TX

Oct 2016: [Southwestern Association of Forensic Scientists](#) – Galveston, TX

## [Training](#)

Ron Smith & Associates Training

**National Latent Print Examiner Training Academy**  
APPLY NOW!

2nd Session - OCTOBER 3, 2016 thru MARCH 3, 2017

BUDGET PLANNING REQUIRED?

3rd Session - October 2, 2017 thru March 2, 2018

RS&A now offers an intense 20 week training program designed to provide agencies with a Latent Print Examiner who is trained to competency. This academy, with 800 hours of formal training, will produce graduates that are capable of performing "supervised case work" and once time requirements are met, be ready to apply for IAI Latent Print Certification.

2nd Session is scheduled to begin October 3, 2016 Hattiesburg, MS at the Camp Shelby Joint Forces Training Center. Only 25 academy applicants will be selected to attend so apply today!

The total cost for this program including academy tuition, 20 weeks room and board, and 3 meals per day is \$27,500.00.

Click here for complete details, photos, and the admission applications. (Link to: [Ron Smith And Associations LP Academy](#))

**Ron Smith & Associates National Forensic Quality Manager Training Academy**

March 20, 2017 - March 31, 2017 in Pearl, MS

It is truly amazing that, until now, there has never been a national training academy specifically designed for Quality Managers. Forensic Quality Managers have been expected to learn from "on the job" training that they may receive from a variety of sources, but none of this training has been consistent in the industry. Organizations like the Association of Forensic Quality Assurance Managers have been huge in taking up the mantle of providing various workshops and classes, but it was never intended to take the place of a complete training program. With forensics being under such intense scrutiny these days, agencies who perform forensic analysis must ensure that their work is performed under the guiding principles and standards which are now becoming more clearly defined each day. We, in the forensic should.

Ron Smith & Associates, Inc. is known as one of the premier forensic training companies in the world. Our teams of subject matter experts and support staff have successfully designed and offered hundreds upon hundreds of highly sought after training opportunities all across the United States and abroad. RS&A is now ready to take on the challenge of building a National Forensic Quality Manager Training Academy which will soon become the cornerstone of forensic training in this very critical area.

Academy tuition is \$2,500.00 with only 25 seats available.

[helps fight crime before it occurs](#)

[ABC Online](#)

The Australian Federal Police's (AFP) motto is "fight crime together and win" and science is proving one of its most potent weapons in that fight

[Editorial: Time to sort out details on metro crime labs](#)

[Omaha World-Herald](#)

Bridget Driver, a forensic scientist with the state crime lab, uses an ALS, an "alternative light source," to search for latent fingerprints on a soda pop can

...

[Report criticized SBI crime lab's lack of](#)

[documentation](#)

[News & Observer](#)

He said the SBI manual didn't require sketches or photographs for firearms analysis and that the test ...Desmond hadn't performed could have

[Human remains found at Great Falls crime scene](#)

[KTVQ Billings News](#)

The remains have been taken to the Montana State Crime Lab in Missoula for autopsy and identification. .. Police plan to release more information

[State-run fire lab loses national accreditation over](#)

[questions about accuracy](#)

[Orlando Sentinel](#)

The lab was accredited in 2010 and again in 2015 by the American Society of Crime Laboratory Directors. But in January, when its review team visited

[Forensic testimony dominates second day of W.Va.](#)

[murder trial](#)

[Herald-Mail Media](#)

Philip K. Cochran, forensic-firearm examiner with the West Virginia State Police crime lab, said he wasn't able to determine from what the fragment

[Triplett was indicted in local case](#)

[Mt. Sterling Advocate](#)

turned over to a forensic lab for examination, police ... chief David Charles said. Seizure of items came ...based on search warrants obtained by the dept

[promises improvements in transfer of forensic files](#)

[Jamaica Observer](#)

Gov't promises improvements in transfer of forensic files ... a backlog of certificates at the forensic lab as a result of not being picked up by the relevant

...

[Former Oregon State Police scientist pleads guilty to](#)

[stealing drugs from crime labs](#)

[Q13 FOX](#)

BEND, Ore. — A former Oregon State Police forensic scientist pleaded guilty to stealing drugs that had .been submitted as evidence at two crime labs

Click here for complete academy details and to complete an academy application today! (Link to: [Ron Smith And Associates QMAcademy](#))

**National Footwear & Tire Track Training Academy**

SEPTEMBER 5-16, 2016 (2 weeks Footwear)

OFF (September 19-30, 2016)

OCTOBER 3-14, 2016 (2 weeks Footwear)

OFF (October 17-28, 2016)

OCTOBER 31 - NOVEMBER 11, 2016 (2 weeks Tire Track)

RS&A now offers a Footwear and Tire Track Training Academy which includes 4 weeks of footwear examination training followed by 2 weeks of tire track examination training. Applicants can elect to complete the entire 6 week footwear and tire track academy or break it up and choose only the 4 weeks of footwear training or the 2 weeks of tire track training. The academy graduates of this 6 week program will learn the skills necessary to complete supervised footwear and tire track casework and will be ready to apply for a IAI Footwear Certification once time requirements have been met.

It is scheduled to begin September 5, 2016 in Hattiesburg, MS at the Camp Shelby Joint Forces Training Center. Only 20 academy applicants will be selected to attend.

The entire 6 week footwear and tire track academy the cost is set at \$11,250.00.

The 4 week footwear only academy is set at \$7,500.00.

The 2 week tire track only academy is \$3,750.00.

Cost includes academy instruction, room and board, and 3 meals per day according to training selection.

Click here for complete details and to apply for admission today. (Link to: <http://www.RonSmithandAssociates.com/Footwear>)

**Looking Ahead: The National Sexual Assault Policy Symposium**

NIJ, through its Forensic Technology Center of Excellence, is hosting Looking Ahead: The National Sexual Assault Policy Symposium on September 8-9, 2016. The symposium focuses on how the nation is moving forward and finding solutions to the complex issues that arise in sexual assault cases and in testing sexual assault evidence.

NIJ expects more than 350 high-level government officials from national, state, and local levels, along with decision-makers from law enforcement agencies, the legal community, and criminal justice coalitions from all 56 states and territories. This unprecedented event will support our nation's policymakers and practitioners as they drive future efforts to solve sexual assault cases, provide justice to victims, and ultimately improve public health and public safety.

Speakers include Pulitzer Prize winners T. Christian Miller and Ken Armstrong, co-authors of "An Unbelievable Story of Rape," Alicia O'Neill from TNT's Cold Justice: Sex Crimes, and victims advocate Natasha Alexenko, founder of Natasha's Justice Project.

[Learn more and read the agenda.](#)

[Register now.](#)

Seating is limited and hotel courtesy blocks expire soon.

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The American Society of Crime Lab Directors, along with RTI, have made the below webinars available.

[ASCLD Train the Directors Latent Prints Webinar - Archival](#)  
[ASCLD Train the Directors DNA Discipline Webinar - Archival](#)

[ASCLD Train the Directors Controlled Substance Webinar - Archival](#)

[ASCLD Train the Directors Digital Multimedia Evidence Webinar - Archival](#)

[ASCLD Train the Directors Toxicology Webinar - Archival](#)

[ASCLD Train the Directors Firearms Webinar - Archival](#)  
[False-Positive/Negative Error Rates in Cartridge Case Comparisons](#)

[ASCLD Rapid DNA Webinar 1 – Archival Version](#)  
[ASCLD Rapid DNA Webinar 2 – Archival Version](#)  
[ASCLD Rapid DNA Webinar 3 – Archival Version](#)  
[ASCLD Webinar Series:](#)

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