

PNWD/IAI

FALL 2008



EXAMINER

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MESSAGE FROM SARA TREJO 2008-2009 PNWD/IAI PRESIDENT



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Can you believe it is October already? Where has the year gone? The weather has turned rainy; the leaves are red and falling to the ground. The first signs of the approaching holiday season are appearing in the stores, but my personal favorite sign of fall is football season!

At the end of September the board met in Walla Walla, Washington. We had lunch and toured the Marcus-Whitman Hotel. I can not tell you how excited I am for the up coming conference. The food is wonderful and the hotel is beautiful. You will not be disappointed. Please take a minute and check out their website www.marcuswhitmanhotel.com. I know that many agencies are feeling the financial crunch of budget cuts but I truly hope to see as many of you as possible. Everyone on the board is working their hardest to create an exciting and educational conference experience that you will remember. I will have more details to share soon – so keep your eye out!

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The International Association for
Identification's annual International
Educational Conference will be held
August 16-22, 2009 in Tampa, Florida,
USA



PNWD/IAI 45th ANNUAL EDUCATION AND TRAINING CONFERENCE

May 18th – 22nd 2009
Marcus Whitman Hotel
Six West Rose
Walla Walla, WA
99362

A Way to Find Hidden Fingerprints

Scientists Have Developed Better Way to Identify Fingerprints on Bullets and Fragments of Explosives

By BRITTANY SAUSER

Sept. 6, 2008

Fingerprints are crucial evidence in many criminal investigations because they can tie a suspect to the scene of a crime with almost indisputable accuracy. Now crime-scene investigators have a new technique for finding fingerprints left on metals, like the cartridge from a spent bullet or fragments of an improvised explosive device, even if the perpetrator tries to wash the evidence clean.

Forensic scientist John Bond of the Northamptonshire Police, in the United Kingdom, developed the technique after discovering that certain metals, including copper and brass, corrode very slightly when touched, leaving behind a faint but indelible fingerprint. Already, the technique has been used to provide fingerprints in a nine-year-old double-homicide case in Kingsland, GA, after conventional fingerprinting methods were unable to identify any prints on a shell casing, says Bond.

Traditional fingerprinting techniques involve triggering a physical or chemical reaction

with the deposits left behind by a finger to make a print visible. If these deposits are removed, the techniques will fail. This seriously limits what forensic scientists can do to identify fingerprints in spent cartridge cases and at arson scenes where normal prints have been removed, says Hazel Johnson, a specialist advisor at the Forensic Science Service, based in Birmingham, in the U.K. "We will look at the metals under a laser for potential fingerprints, but rarely is the technique able to spot the print," she says.

The new technique makes use of a physical change that occurs to metal when a person touches it. This is due to the salt in human sweat: ionic salt molecules present in the fingerprint residue corrode the metal surface to produce an image that can only be removed by abrasive cleaning of the metal. Bond, also a fellow at the University of Leicester, in the U.K., found that the fingerprint can be made visible by applying a voltage to the metal and coating it in a metallic powder.

"The advantage of the new technique is its permanence," says Ron Singer, crime-laboratory director for the Tarrant County
(continued on pg. 8)

megaMAXX™

A remarkable advancement in ALS Technology!

The megaMAXX™ System is designed to assist the investigator at the crime scene or in the lab. The MMX100 consists of handheld, machined-aluminum, and self-contained light sources—each operating at or very near the individual light frequencies indicated on each light (395-625nm). A white megaMAXX™ light source is included to facilitate general crime scene searches. For hands-free operation, a flexible gooseneck tripod allows for precise positioning of the lights.

Seven Visible Light Sources

The seven (7) megaMAXX™ Visible Light Sources are identical in size and shape. Each one contains a single, very high-intensity, 1-watt Light Emitting Diode (LED), operating from 3 AAA alkaline batteries. Use barrier filter goggles to view fluorescence and similarly colored 52mm camera filters to photograph.

These LED lights have no mounted filters. Such filters remove all but the desired light frequency—resulting in light loss.

megaMAXX™ Light Diffuser

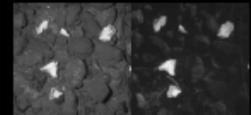
Due to the intensity of these lights, however, certain applications may require a less intense, softer light. For this purpose, we have engineered a diffuser to slip on and off the visible lights.

megaMAXX™ UV Light

The 395nm UV Light Source should always be used in the preliminary examination and location of physical evidence. It features five UV LEDs and operates from two CR123 Lithium batteries. Use UV Spectacles for general eye protection.



Undetectable bone fragments above are made visible in the bottom left photo using the 395nm UV Light and 455nm bottom right. (Orange barrier filter goggles used to view 455nm.)



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- 1-MMXPOD Light Support Tripod
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- 2-CR123 Lithium Batteries
- 1-797GV UV Protective Spectacles
- 1-FAL208 Yellow Goggles
- 1-FAL207 Red Goggles
- 1-BMS300 Orange Goggles
- 3-52mm Camera Filters: Yellow, Red, and Orange
- 1-MMX100C Custom-fitted, heavy-duty Attache Case w/pre-cut foam insert; Dimensions: 18.5" x 15.5" x 5.5" (47cm x 39.4cm x 14cm); Weight: 11.12 lbs. (5kg)

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**MEET YOUR NEW PNWD/IAI
BOARD MEMBER**

**Bridget Kinney
Criminalist II / Latent Examiner
Crime Lab / Criminal Investigation
Division
Boise Police Department**

I graduated from the University of Utah with a Bachelor of Science degree in 1994. I began my employment with the Boise Police Department in September 1995, in the Telephone Report Unit. A full-time position was created to assist both the Crime Lab and Victim-Witness units in 1998, which I applied for and filled. Shortly after, it was determined both units required full-time assistance, and in 1999 I was asked which area I would prefer to remain. I chose the area which interested me the most, which was the Crime Lab (of course).

In February 2000, I was advised the Crime Lab Technician position (now titled Criminalist) would be vacated shortly, and I applied for that position. I was chosen to fill the Crime Lab Technician position that same month. I worked in the Crime Lab in that capacity until September 2004, when I had a child and did not wish to be called night or day to crime scenes. I therefore transferred to the Miller Street Substation civilian position where I was able to maintain a routine work schedule.

In June 2006, I was encouraged to return to the Crime Lab. I applied for the Criminalist II position (as it is now titled), and was chosen to fill the position. I have worked in the Criminalist II capacity since that time, and having a BLAST!



***Are you interested in training
coming to the Pacific Northwest?***

Laurie Ordonia, of King County Sheriff's Office, is trying to bring training to Seattle. If your agency is interested in the following classes:

*Advanced Friction Ridge Analysis for
Tenprint Examiners
Courtroom Testimony Techniques
Fingerprint Expert Witness Testimony
Advanced Palm Print Comparison
ACE-V class with Glenn Langenburg*

Contact Laurie Ordonia
KCSO AFIS-Identification Section
516 3rd Ave.
Seattle, WA 98104
Office: 206-296-7729

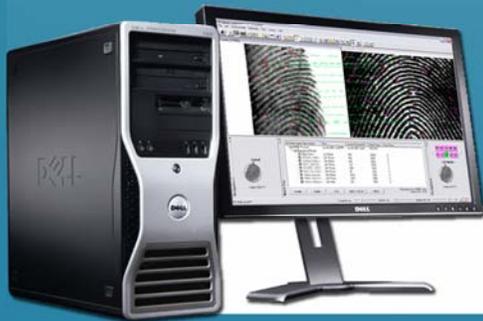
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isn't getting
smaller;
your
searches are
just getting
bigger.

AFIXTracker

AFIX Tracker is the automated fingerprint identification system of choice for hundreds of law enforcement agencies around the world.

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To learn more about AFIX Tracker or to schedule an onsite demonstration, call:
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AFIXTechnologies, Inc.

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UPCOMING IAI SPONSORED TRAINING

- Course Title **Advanced ACE-V Applications**
Phoenix, AZ metro area
Glenn Langenburg
December 1 - 5, 2008
- Course Title **Complex Latent Print Examination**
South Carolina Sheriff's Association, Columbia, SC
Debbie Benningfield and Charles Richardson
December 1 - 5, 2008
- Course Title **Fundamentals of Crime Scene Investigation and Evidence Collection**
Mississippi University for Women, Columbus, Mississippi
John Black
December 8 - 12, 2008
- Course Title **IAI Latent Print Certification Test Preparation Course**
Kansas City, MO. Regional Police Academy
Debbie Benningfield and Charles Richardson
December 15-19, 2008
- Course Title **Finding Latent Print Evidence with Chemistry and Light**
Frisco Police Department, Frisco, TX (Dallas suburb)
Brian Dalrymple
January 6 - 9, 2009
- Course Title **Forensic Examination of Violent Crime Scenes**
Humble Texas Police Department, Humble, TX
John Black
January 13 - 15, 2009
- Course Title **Advanced Palm Print Comparison Techniques**
Chula Vista Police Department, Chula Vista, CA
Ron Smith
January 20 - 22, 2009
- Course Title **Forensic Examination of Violent Crime Scenes**
Arlington Police Academy, Arlington, TX
John Black
February 3 - 5, 2009
- Course Title **Advanced Palm Print Comparison Techniques**
Texas Department of Public Safety Training Academy, Austin, TX
Ron Smith
February 4 - 6, 2009
- Course Title **IAI Latent Print Certification Test Preparation Course**
Hernando County Sheriff's Office, Brooksville, FL
Debbie Benningfield and Charles Richardson
February 9 - 13, 2009
- Course Title **Finding Latent Print Evidence with Chemistry and Light**
Henderson Police Department, Henderson, NV
Brian Dalrymple
February 17 - 20, 2009

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Medical Examiner Crime Lab, in Fort Worth, TX. "It is looking for the minute amount of etching that takes place in the metal--the physical change that has occurred to the surface." Singer says that the technique could prove more resilient than conventional methods. "If you don't get it right the first time, you can do it again," he adds.

Once the University of Leicester scientists knew that fingerprints could corrode metal, they applied a very large electrical charge--2,500 volts--to the corroded area. They then applied to the metal a very fine, black conducting powder similar to photocopier toner, which adhered to the areas of corrosion. "You could see the outline of the fingerprint in the black powder, thereby rendering the fingerprint visible," says Bond.

Johnson thinks that the technique is exciting but warns that the surface area of cartridges is so small that the entire print may not be obtained. "One of the major issues in fingerprint analysis is how much of the print is necessary before you can reliably say it is someone's fingerprint," says Singer. In general, though, Singer is impressed with

Bond's research. "The more methods we have to develop invisible fingerprints, the better off we are."

Bond says that the technique has been extensively tested in the lab and will be applied in more cases in both the United States and the United Kingdom. Furthermore, he has been in contact with the U.S. military, which is eager to use the technology for roadside bombs or improvised explosive devices. "Traditional bomb-making metals are ones like copper, which we know corrode with fingerprints," says Bond. "The fingerprint on metal from an exploded bomb should work the same way it does on a bullet with a fingerprint."

Article Reprinted from October 2008 IAI Monthly Update.

FORENSIC WEBSITES

www.csigizmos.com

www.clpex.com

www.iacis.info

www.onin.com

www.usdoj.gov/oig/special/s0601/PDF_list.htm

www.swgfast.org

www.latent-prints.com

www.crime-scene-investigator.net



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Leaders in filtration and contamination control equipment, *Air Science USA* has a range of cabinets designed specifically for forensic applications. Whether you need to protect the operator or the evidence, we have a range of cabinets to suit your needs.



Fingerprint Workstation

- Unique downflow air pattern to capture fingerprint powder
- Unrestricted access
- Compact design
- Carbon and HEPA filters



Ductless Fume Hood

- Provides operator protection from fumes and particle hazards, such as ninhydrin sprays & superglue
- Advanced monitoring and safety features
- Non-polluting and energy saving



PCR Workstation

- RNA/DNA sampling and preparation
- Provides class 100 clean air for sample protection
- Timed UV light and advanced safety features
- Compact bench-top design



Swab Dryer

- Provides operator and swab protection
- Dries and stores swabs in a controlled environment
- Protection from airborne hazards & bacterial pathogens
- Protection of swabs from cross contamination
- Compact design



Forensic Evidence Cabinet

- The activated carbon & HEPA filters ensure a safe working environment for personnel and protection of evidence from cross-contamination
- Many sizes available
- Easy to install



Biological Safety Cabinet

- High operator protection
- Smart control panel
- Safety critical parameters monitored
- Easy to use
- Class I, II, III units available



CA Chamber

- Automated development of fingerprints
- Fully self-contained system requiring no installation costs
- Lock out safety feature which protects the door from opening when fumes are present within the chamber
- Many sizes available

**Visit us on-line at
www.AIR-SCIENCE.com**

MORE TRAINING:

For more information on any of the below listed classes visit the web site at <http://www.pnwdiai.org>

October 28-31, 2008

Digital Video and Adobe Photoshop
San Francisco, CA through Contra Costa County Sheriff's Department and Pittsburg Police Department

This class provides an understanding of the tools available for the recovery, analysis, and enhancement of digital video as well as an understanding of the capabilities of Adobe Photoshop CS3 for clarifying video images from Digital Video Security Systems.

November 18-20, 2008

Forensic Video Analysis - Level 1
Bakersfield, CA through Bakersfield Police Department

This class introduces the technologies of analog and digital video evidence and the available tools for analyzing and producing derivative evidence. This class will provide an opportunity for the student to work with a variety of Forensic Video Analysis software and hardware programs. Those students new to Forensic Video Analysis as well as those looking for an update of digital video technologies and the tools available for analysis will benefit from this class.

March 2-6th, 2008

Crime Scene Reconstruction II
Eugene, OR

This four-day workshop, Crime Scene Reconstruction II, is taught by Tom Bevel and Ross Gardner. A review of basic crime scene reconstruction techniques including Event Analysis and Flow Charting. Additional areas of study include: Developing a complete reconstruction of an actual case, and writing a formal reconstruction report. Court presentation methods to include:

3-D scene diagramming using Poser 4 to depict human forms and their positions as well as the use of PowerPoint in court. The student will use both PowerPoint and Poser in the Mock Trial.

For more information, click call Lisa Pope at (541)-682-2802.

March 30 - April 3, 2009

Bloodstain Pattern Analysis

Canyon County, (Idaho) Sherrif's Office

Course Purpose and Objectives

This comprehensive 40-hour basic bloodstain pattern course will:

- Include lecture, hands-on lab work, and mock scenes for a final exam.
- Provide the student with a fundamental working knowledge of bloodstain pattern analysis for crime scene reconstruction.
- Appeal to law enforcement, criminal investigators, forensic scientists, specialists and technicians, death investigators, prosecutors and criminal attorneys, and others involved in criminal investigations and crime scene reconstruction.
- Enable participants to identify, examine, document, interpret and preserve bloodstain evidence at crime scenes.

Course Description The basic bloodstain class is held over five consecutive days, and the student will learn:

- Flight Characteristics of Blood and Specific Bloodstain Patterns.
- Examination, Interpretation, and Documentation of Bloodstain Evidence.
- Relationship of stains and patterns to wounds and the scene.
- Serological/DNA considerations.

For more information visit

www.ChristmanForensics.com.

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May 14-15th, 2009

Analysis of Distortion

Spokane, WA

This two-day workshop focuses on the analysis of the ACE-V methodology as it pertains to distortion created by movement of the friction ridge skin when it touches a surface.

All impressions of the friction ridge skin bear distortion. Each time the skin contacts a surface, pressure and movement cause the skin to stretch and compress in response. Each touch is different and distorts the skin in its own way, creating variation in appearance among impressions of the same area of friction ridge skin. How do pressure and movement affect the appearance of the skin? What are the clues that allow a trained scientist to explain variation in appearance by reconstructing the touch? How should this be documented?

For more information call Deputy Dave Ellis at (509) 477-3290.

Congratulations to the following new PNWD/IAI members!

Member #1099
MICHAEL SWANSON
Forensic Imaging Specialist
Anchorage Police Department

Member #1100
BRENDA CARTER
Community Service Specialist
Boise Police Department

Member #1101
NATALIE RUCKENBROD
Sheriff Technical Assistant
Spokane County Sheriff

Member #1102
CHRISTOPHER GETZ
Professor
Pima Medical Institute

Member #1103
LARISSA MILLER
Forensic Technician
Spokane County Sheriff

Member #1104
NICOLE KOTSOVOS
Identification Technician
Portland Police Department

Member #1105
JO WARD
Senior Fingerprint Technician
Idaho State Police

Member #1106
STACEE DOBSON
Senior Fingerprint Technician
Idaho State Police

Member #1107
PAMELA LYNE
Identification Technician
King County Sheriff

Member #1108
KELLY PECK
Identification Technician
King County Sheriff

Member #1109
COY HODGE
Identification Technician
King County Sheriff

Member #1112
COURTNEY WILLIS
Forensic Scientist
Washington State Patrol

Member #1113
CAMIE AUSTAD
Criminalist
Washington County Sheriff

Member #1114
ANGELA VAN LIEW
Photographer
King County Sheriff

Member #1115
JASON RUTLEDGE
Kent, WA

JOB ANNOUNCEMENTS

Seattle Police Department

Job: Latent Print Examiner (SPD 50)
Status: **Full Time**
Shift: **See Description**
Filing Dates: **Open until filled**
Salary: **\$27.63 to \$32.19 an hour**
Location: AFIS Grant / 2203 Airport Way South

Position Duties:

The Seattle Police Department is actively recruiting Latent Print Examiners to join our team of highly motivated professionals. The Latent Print Examiner will analyze and compare latent prints. Collect and preserve latent prints and other physical evidence in the laboratory, as well as under potentially adverse conditions at major crime scenes. Locate, develop, recover and preserve latent impressions on a wide variety of materials and surfaces using physical, chemical, electronic, and optical techniques. Administer infrared, ultraviolet, and other special forensic photographic procedures, including digital imaging devices. Evaluate and enter suitable latent prints into the Automated Fingerprint Identification System (AFIS) by photographing, determining the minutiae, identifying position, tracing, and inputting the impression. Determine identifications and non-identifications by comparison and verification of each latent print to AFIS candidate lists. Write detailed reports concerning results of analysis. Recover fingerprints, palm prints, and footprints from deceased and decomposed bodies, victims of crime, and potentially violent suspects. Train Identification Technicians in the proper collection, preservation, and documentation of latent print evidence. Provide training to law enforcement personnel concerning the proper collection and preservation of physical evidence. Testify in criminal legal proceedings as needed concerning methods of analysis and results. The expert Latent Print Examiner team is part of the Department's Forensic Support Services including the Identification Unit, Evidence Unit, Photo Lab, and Video Unit.

Required Qualifications:

Bachelor of Science degree with a major in forensic science, criminalistics, physical or natural science, or related field, and two years experience in latent print examinations and processing of evidence. Technical experience in a forensic laboratory or in the identification and analysis of fingerprints can substitute for up to two years of college education. Able to respond to crime scenes on weekends, evenings and holidays. Working knowledge of the Henry Classification and National Crime Information Collection systems, forensic photography, alternate light sources, and digital imaging technology. Proper use and storage of safety equipment i.e., air respirators, chemicals, gloves, booties, and laboratory equipment. Proper handling of hazardous, caustic, flammable, and carcinogenic chemicals, including firearms and explosive devices. Satisfy a Seattle Police Department background investigation, pass a physical examination by a City-approved doctor. Washington State Driver's License at time of hire. Obtain a Washington State ACCESS/WACIS certification within one year of employment.

Desired Qualification:

Temperament to work with deceased bodies, body fluids, biologic pathogens, hazardous materials, and firearms in a professional and safe manner. Certification by the International Association for Identification (IAI). Coursework from the Federal Bureau of Investigation in latent print examination or other forensic training. Working knowledge of the Automated Fingerprint Identification System. Highly detail oriented with the ability to follow oral directions and written operating procedures. Reliable judgment, problem solving and decision making skills. Self-motivated individual with experience working in a team environment.

How to Apply:

Apply online at www.seattle.gov/jobs/ or complete an application, cover letter, resume and drop it off at the Personnel Department, Seattle Municipal Tower, 700 5th Avenue, Suite 5400, Seattle, WA 98124-4028

Pacific Northwest Division International Association for Identification

Membership Renewal -DUES STATEMENT

According to the bylaws of our division,

MEMBERS [Article II, Sec. 1.]: The annual dues shall be \$25.00 payable in advance, on the first day of January of each and every year. [Article II, Sec. 4.] A member who is delinquent as of May 1st in the payment of dues as of the opening of the annual general membership business meeting is not deemed in good standing.

NEW APPLICANTS [Article II, Sec. 2.]: Dues paid to the association between January 1 and September 30 shall be applied to the dues for that calendar year only; dues paid between September 30 and December 31 shall apply to the following calendar year.

You may pay your 2008 dues now. **In order to receive the member registration rate for the annual conference, you must pay your dues by May 1st.**

The majority of our correspondence will be sent via email. Please make sure this information is up to date.

2008 PNWD/IAI DUES..... \$25.00

NAME: _____

ADDRESS: _____

E-MAIL: _____

PHONE: (____) _____

FAX: (____) _____

AGENCY: _____

JOB TITLE: _____

My address and phone number are correct in the last roster:

Yes _____ No _____

(If NO, please highlight changes above)

Mail dues to PNWD/IAI Treasurer:

PNWD-IAI Treasurer
c/o Lorene Moore
7505 34th Ave SW
Seattle, WA 98126

If you have any questions, contact Lori at: Lorene.Moore@METROK.C.GOV

**International Association for Identification
Is coming to
Spokane, Washington
In 2010 and the
Pacific Northwest Division is here to help!**

Come and be part of the excitement!

We are going to need lots of help throughout the conference. The more people we have to help the more of the conference we will all get to enjoy!

For those of you who have never been able to attend one of these conferences now is the time. There are people from all over the world to meet and new ideas to be shared. The vendor room is truly over whelming with lots new and exciting gadgets and lots of free stuff.

This conference will be instead of our regular conference. **We will be holding a general meeting and election of officers some time during this conference.**

Start planning with your departments about being able to attend this conference and putting in a couple hours of work to help your Local Division receive a portion of the profits. The money that we could earn from this will help your Local Division put on sponsored classes and lower our conference registration fees for a few years.

When you know that you will be able to attend let me know so that I can put you on the workers roster.

Thanks, in advance, for making the Pacific Northwest Division one of the best Divisions in the World, Linda Grass, jakegrass@aol.com



Disclaimer

The views expressed in articles contained in this publication do not necessarily represent the views of the Pacific Northwest Division of the International Association for Identification. The Association neither guarantees, warrants, nor endorses these views or techniques but offers these articles as information to the membership. Some articles may contain descriptions of processes utilizing chemicals or combinations of chemicals that may be hazardous to the user's health. It is strongly recommended that proper precautions be taken when using known hazardous chemicals or a combination thereof. The Association assumes no responsibility for the use of chemicals or combinations thereof as set forth in any article.



MESSAGE FROM THE EDITOR

Any suggestions or comments for the newsletter are always appreciated. Please feel free to email or call me.

Natasha Wheatley
Idaho State Police
700 S. Stratford
Meridian, Idaho 83642
Phone: 208-884-7148
Natasha.Wheatley@isp.idaho.gov

**FOR MEMBERSHIP
INFORMATION PLEASE VISIT
OUR WEBSITE AT**

[http://www.pnwdiai.org/membership
.php](http://www.pnwdiai.org/membership.php)