

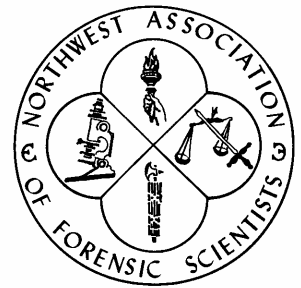


# NORTHWEST ASSOCIATION OF FORENSIC SCIENTISTS



2012 TRAINING CONFERENCE  
SEPTEMBER 23-28, 2012  
MISSOULA, MT

NWAFS Seminar  
September 23-28, 2012  
Holiday Inn Downtown, Missoula, MT  
<http://www.holidayinn.com>



## Workshop Descriptions

### **Workshop #1: Utilizing an Accelerant-Detecting Dog for Fire Investigators and Chemists**

Instructor: Rick Freier, Spokane Valley Fire Department

This one-day course will include a brief lecture about modern techniques in the detection, collection and examination of accelerants in arson investigations. The introductory lecture will be followed by an off-site live burn/suppression conducted by the Missoula Fire Department. Hands on demonstrations by an accelerant sniffing dog and on-scene evaluation to include collection of samples will be provided. This course is intended for field scene examiners who may be involved with arson scene processing and laboratory chemists who desire a better understanding of how fire scenes are evaluated in the field.

### **Workshop #2: Forensic Evaluation of Long Range Ballistics**

Instructor: Matthew Noedel, Noedel Scientific

This half day course will cover the forensic considerations of assessing a long range trajectory evaluation. Concepts including calculation of ballistic coefficients, the environmental factors and other characteristics of long range reconstruction will be addressed. Data gathered from prior testing will be discussed and shared.

### **Workshop #3: Ethics in Forensic Science**

Instructor: Carolyn Gannett, Gannett Forensics

This half-day (four-hour) workshop provides tools to readily access the content of roughly two dozen forensic science ethics codes from around the world and gives individuals the opportunity to apply that content to realistic scenarios. Lecture material offers insight into the role of morals, motivations for unethical conduct. Issues surrounding filing an ethics complaint or being the subject of an ethics allegation will be discussed.

### **Workshop #4: Jury Selection-Do you Know your Audience**

Instructors: Sharon Hedlund, Spokane County Prosecuting Attorney's Office

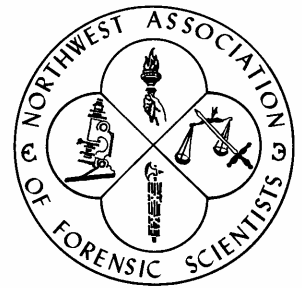
(Half day) Attorneys go through many levels of examination when selecting a jury. Because the forensic scientist is not usually involved in this process, learn what attorneys are looking for in jurors. Gain an understanding of how an average juror digests forensic information and what an average juror expects from an expert witness. Are you reaching your audience?

### **Workshop #5: Using Adobe® PhotoShop® as an Evidence Screening Tool**

Instructor: Jeff Jagmin, Steve Stone, Brett Bishop Washington State Patrol Crime Lab-Seattle

This one-day workshop will provide the students with techniques that can be used on contact transfer type casework (bloodstain, impression, latent print, and questioned documents) with minimal handling of the evidence. The class will introduce and demonstrate the basic features of Adobe® PhotoShop®. Students will also learn many different techniques to examine a variety of

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cases using the Modes and Adjustment features. The students will work through numerous real casework scenarios utilizing techniques discussed in the class.

**Workshop #6: Identification of Natural Fibers**

Instructor: Susan K. Wilson, Ph.D.

Abstract: This one day workshop will familiarize students with the microscopical and microchemical identification of various types of natural fibers which may be encountered in criminal cases. The sources, processing, and end-uses of animal, vegetable, and mineral fibers will be reviewed. Special emphasis will be given to vegetable fibers, with lectures on basic plant anatomy, plant cell wall structure, cellulose and lignin in the plant cell wall, regenerated celluloses, and correlations between botanical and textile industry fiber terms. This workshop covers the topics under chapters 8, 9, and 10 (natural fibers) of SWGMAT guidelines for Fiber training.

Target Audience: Trace Examiners of all experience levels

**Workshop #7: Microscopy for the Non-Microscopist**

Instructor: Susan K. Wilson, Ph.D.

Abstract: Do you dread using a microscope? Do you get headaches after looking through the eyepieces for only a minute? Does your neck ache after 10 minutes? Do you wonder why sometimes your image looks fine and the next day it looks terrible? Did you bump a knob but you are not sure what that knob does so you just left it alone? Or do you just want to get better images through the eyepieces or a camera? If you answered "yes" to any of these questions, then this workshop is for you! We will cover in a few short lectures image generation with stereo and compound microscopes, different contrast enhancement methods, and the use of a simple point and shoot camera. We will spend the remainder of the time working with different types, makes, and models of microscopes to observe differences in image quality. Students will be shown different compound microscopes and determine what contrast enhancement techniques are available for that instrument. We will observe what happens to an image when Kohler illumination is not set properly, how to change the depth of focus of a sample for a photograph without changing the objective lens, and how to decrease the light level without losing resolution. You may not fall in love with microscopes by the end of this workshop, but you should feel more comfortable working with them.

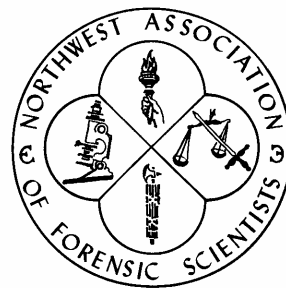
Scheduling: This workshop is a ½ day workshop. Different types, makes, and models of microscopes would be appreciated for demonstration purposes.

**Workshop #8: Gastric Contents and Food Analysis**

Instructor: William Schneck, Microvison Northwest

The examination of gastric contents, vomit stains and food have probative value in both criminal and civil investigations. The identification of vomit stains may prove or disprove a suspect or victim alibi, support witness testimony, and help in crime scene reconstructions. Vomit traces may reveal food particles that identify a specific food or meal leading investigators to a restaurant the victim may have last dined. An unusual food ingredient or an abundance of one type of food may suggest traits or food habits helpful to an investigation. Vomit may transfer from a victim to a suspect

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environment, i.e., clothing, dwelling or automobile. When stomach contents from a victim and foreign samples from a suspect environment are characterized and compared, similarities in food ingredients may suggest a common origin linking the suspect to the victim.

This workshop will cover the characterization of food traces by lectures and lab exercises. Commonly encountered food traces including spices, herbs, salt, sugar, starches, meat, vegetables, and fruits will be examined by light microscopy. A variety of dried stains will be tested for the presence of gastric enzymes. Simulated liquid gastric contents will be sieved and food products identified. The use of dichotomous plant cell keys, reference collections, and staining methods will be studied.

**Workshop #9: Advances in DNA: Applied Biosystems™ 3500 Series Instrumentation**

Instructor: Amie Ingold, Applied Biosystems; Guest: Bill Gartside Biology Unit Supervisor  
Wyoming State Crime Laboratory

The 3500-series instruments are the first genetic analyzers designed with a specific feature set and workflow for the Human Identification application. This workshop will outline the features, implementation and advantages of the 3500 over previous systems. Bill Gartside will be on hand to discuss how the Wyoming State Crime Laboratory validated their new system in conjunction with Applied Biosystems. Lunch and breaks will be provided by Applied Biosystems which enables this course to be offered at no cost to those choosing to attend.

**Workshop #10: Solid Phase Extraction for the Forensic Scientist**

Instructor: Dr. Michael J. Coyer, United Chemical Technologies Inc.

This half day workshop will teach attendees the history, theory, and method development procedures involved with solid phase extractions and provide an in-depth discussion of all available sorbent types and their chemistry. The use of mechanisms to improve selectivity and recovery will be included. New and innovative applications will be presented and discussed. Special attention will be given to the analysis of Benzodiazepines and metabolites, THC, THCA, and Synthetic Cannabinoids. This workshop will also discuss the validation of SPE methods for GC-MS and LC-MS/MS technologies. A review of challenging matrices will be presented. The workshop is 100% free of marketing bias!

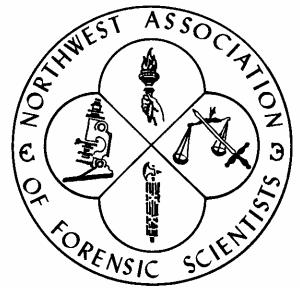
Workshop will appeal to toxicology staff willing to learn about the chemistry, principles, and applications of Solid Phase Extraction (SPE) with regard to forensic toxicology, To learn about the applications of SPE in terms of newer drugs and metabolites and to learn about validation of SPE methods in terms of GC-MS and LC-MS/MS

**Workshop #11: Basic Understanding of Bloodstain Pattern Analysis for the Bench Scientist**

Instructor: Karen Green, Green Forensics

This 1 day class will introduce Bloodstain Pattern Analysis (BPA) for those who may see this type of evidence in their work on the bench. The class will introduce how to recognize and documents

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some basic patterns such as castoff, drip, contact, transfer and projected. The students will be given scenarios on how to document and what is required to document.

**Workshop #12: Bath Salts: New Synthetic Cathinones**

Instructor: Brianna Peterson, Washington State Patrol Crime Laboratory

This half day workshop will focus on the new designer stimulant drugs, commonly known as “Bath Salts”. In the last few years, there has been a dramatic rise in the use of designer synthetic drugs. Designated as legal drugs, these compounds are often more potent than the scheduled stimulant drugs they were designed to imitate pharmacologically. Topics of the workshop will include federal scheduling, basic pharmacology, analytical methodology, observed clinical effects, prevalence in DUI and death cases, and adverse effects of synthetic cathinones.

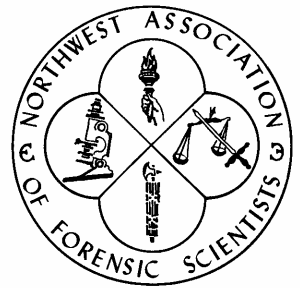
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**Wednesday KEYNOTE ADDRESS: Lessons in Crime Scene Processing: Comparing Crime Scene Processes in Active War Zones-versus-Controlled Domestic Scene Processing**

Special guests will present their experiences in processing crime scene from active war zones. The unique environment of a war zone necessarily means that a different approach to crime scene response must be considered. These presentations will provide the audience with first hand experiences of forensic scientists who have experience in processing crime scenes in war zones.

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## Special Research Workshop Topics

Special Research workshops are small, focused, one-day projects that conduct baseline research on a selected forensic question. The observations and data generated will then be presented during the general session at the end of the week and formally published (after peer review) in the NWAFS Crime Scene publication. Each member of the work group will be under the direction of the Mentor and will contribute to setting up, recording and preparing the research for presentation/publication.

The end product will list as co-authors the name of each participant.

### **Special Research Workshop #1: Temperature of Ejected Cartridge Cases**

**Mentor:** Matthew Noedel, Noedel Scientific

The temperatures of fired cartridge cases just after ejection from a semiautomatic action will be studied and reported. Variables may include caliber and number of successive shots.

### **Special Research Workshop #2: Chemical Enhancement of Footwear Impressions Using Soils of the Pacific Northwest**

**Mentor:** Jeff Jagmin, WSP Crime Lab; Chris Hamburg, OSP Forensic Division

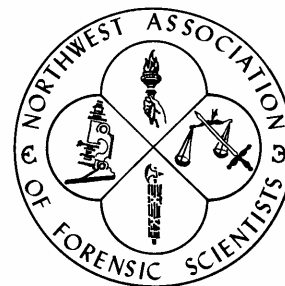
– limit 4 – Footwear impressions using soils of various regions of the Pacific Northwest will be prepared. These impressions will then be enhanced using chemical methods such as ammonium/potassium thiocyanate, bromophenol blue, and others. These impressions will be photographed and evaluated to determine if a specific chemical enhancement is better for different regions.

### **Special Research Workshop #3: Primer Gunshot Residue Contamination**

**Mentor:** Annalivia Harris, Montana State Crime Lab

This research group will evaluate law enforcement environments (such as police cars and Officer duty belts) for the presence of GSR particles. Further, the potential for these sources to secondarily contaminate otherwise clean hands will be examined.

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## Request to Participate Special Research Topics

Name \_\_\_\_\_  
 Agency \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_  
 Phone \_\_\_\_\_ Email \_\_\_\_\_

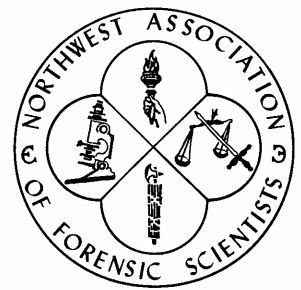
If you would like to be considered for selection to participate in a special research project, please complete this form and forward to Matthew Noedel via email at [mnoedel@att.net](mailto:mnoedel@att.net).

If you have an idea for a Special Research Topic or want to Mentor a project, please prepare an outline of the research and methods and forward to Matthew Noedel via email at [mnoedel@att.net](mailto:mnoedel@att.net).

Additional topics will be considered for approval upon submission.

<u>Special Research Workshop Topics</u>		With Meeting Registration	Without Meeting Registration	TOTAL
<i>Workshop fees are offered at a reduced cost if the participant (Member or Non-member) registers for the <u>full</u> meeting.</i>				
<b>Special Research Workshop 1:</b> Temperature of Ejected Cartridge Cases	Monday, 9/24, 8:00 - 5:00	\$25	\$75	
<b>Special Research Workshop 2:</b> Chemical Enhancement-Footwear	Monday, 9/24, 8:00 - 5:00	\$25	\$75	
<b>Special Research Workshop 3:</b> Primer GSR Contamination	Monday, 9/24, 8:00 - 5:00	\$25	\$75	
<input type="checkbox"/> Total Special Research Workshop Registration – Paid Online <input type="checkbox"/> Total Special Research Workshop Registration – Check Enclosed				

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## REGISTRATION FORM

Name \_\_\_\_\_ NWAFS Member:  Yes  No

Agency \_\_\_\_\_

Address \_\_\_\_\_

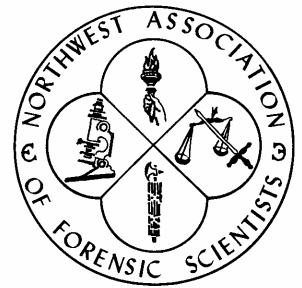
Phone \_\_\_\_\_ Email \_\_\_\_\_

<b><u>Full Meeting Registration</u></b>	<b>MEMBER</b>	<b>NON-MEMBER</b>	<b>TOTAL</b>
Includes conference binder, admission to the general scientific sessions and breaks, Wednesday Vendor Reception, lunch T-Th, Thursday banquet.	\$275	\$375	

<b><u>Workshop Registration</u></b>	<b>With Meeting Registration</b>	<b>Without Meeting Registration</b>	<b>TOTAL</b>
<i>Workshop fees are offered at a reduced cost if the participant (Member or Non-member) registers for the full meeting. Price includes lunch and breaks.</i>			
Special Topics— See prior pages for detail	Monday, 9/24, 8:00 - 5:00	Please submit form	
#1 Arson Workshop	Monday, 9/24, 8:00 - 5:00	\$35	\$125
#8 Gastric Contents Exam	Monday, 9/24, 8:00 - 5:00	\$35	\$125
#11 Basic Bloodstain Patterns	Monday, 9/24, 8:00 - 5:00	\$35	\$125
#2 Long Range Ballistics—AM	Tuesday 9/25, 8:00 - 12:00	\$35	\$75
#3 Ethics--AM	Tuesday 9/25, 8:00 - 12:00	\$35	\$75
#5 Photoshop--PM	Tuesday 9/25, 1:00 - 5:00	\$35	\$75
#12 Forensic Exam of Bath Salts--PM	Tuesday 9/25, 1:00 - 5:00	\$35	\$75
#6 ID of Natural Fibers	Tuesday 9/25 8:00 - 5:00	\$35	\$125
#9 3500 DNA Validation	Tuesday, 9/25, 8:00 - 5:00	Free	Free
Keynote: Crime Scenes in War Zones-Processing Under Fire	Wednesday, 9/26, 8:00-11:00	Free	Free
Lunch--VENDOR FOCUS Wednesday, 9/26, 11:00-1:00			
#10 Solid Phase Extraction	Wednesday, 9/26, 1:00 - 4:00	\$35	\$75
#4 Jury Selection	Wednesday, 9/26, 1:00 - 5:00	\$35	\$75
#7 Microscopy for Bench Scientist	Wednesday, 9/26, 1:00 - 5:00	\$35	\$75
<input type="checkbox"/> Total Meeting and Workshop Registration – Paid Online			



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Total Meeting and Workshop Registration – Check Enclosed

## NWAFS CONFERENCE PAYMENT OPTIONS

Pay by Check or Online (*No Purchase Orders Please*). Checks should be made out to “NWAFS”:

**NWAFS Fall 2012**  
**c/o Heather Campbell**  
**ISP-Forensic Services**  
**700 S. Stratford Dr.**  
**Meridian, ID 83642**

Additional Information/payment  
available online at:

[www.nwafs.org](http://www.nwafs.org)

NWAFS Tax ID 94-2923358

### Meeting Details

Full Meeting Registration: Full meeting registration entitles you to attend the scientific presentation session on Thursday and Friday, September 27<sup>th</sup> and 28<sup>th</sup>; provides a welcome registration bag with conference packet including a program, provides access to the NWAFS hospitality suite in the evening after the technical session, provides lunch on Tuesday, Wednesday and Thursday, provides admission to the Vendor Reception and door prizes; provides a ticket to the dinner banquet on Thursday night.

**\*\*\*Full meeting registration entitles you to use  
the discounted rate for workshops\*\*\***

### HOTEL DETAIL

The conference will be held at the Holiday Inn-Missoula Downtown, Missoula, MT. You must contact the hotel directly for your room reservations **NO LATER THAN September 3, 2012**. Call their reservation line and specify the NWAFS rate of **\$89/night**. Internet is included with your room reservation!

Call: 406-721-8550

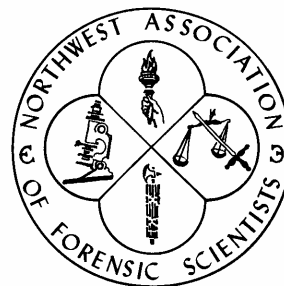
Online: <http://www.holidayinn.com>

Fly into Missoula Airport: Depending on the time of day, it will take from 25 to 50 minutes to get from the airport to the hotel. Car rental or shuttle options should be arranged!

For driving directions Google the location.  
Holiday Inn Missoula Downtown  
200 South Pattee  
Missoula, MT 59802

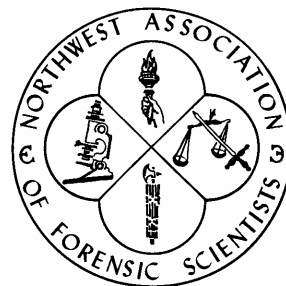
—or—

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<http://www.holidayinn.com/hotels/us/en/missoula/msumt/hoteldetail/directions>

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**NWAFS Trailer Park Tribute**  
**Thursday September 27<sup>th</sup>, 2012**  
**6PM-10PM**



**Come one come y'all and depict your impression of our trailer park roots!**

**WIKIPEDIA Defines Trailer Park:** Trailer parks, especially in American culture, are stereotypically viewed as lower income housing whose occupants live at or below the poverty line, have low social status and lead a desultory and deleterious lifestyle. Despite the advances in trailer home technology, the trailer park image survives, evidenced with stereotypical ignorance in a statement by Presidential adviser James Carville in the course of one of the Bill Clinton White House political scandals, "Drag \$100 bills through trailer parks, there's no telling what you'll find."

It is also seen in the Canadian mockumentary Trailer Park Boys