



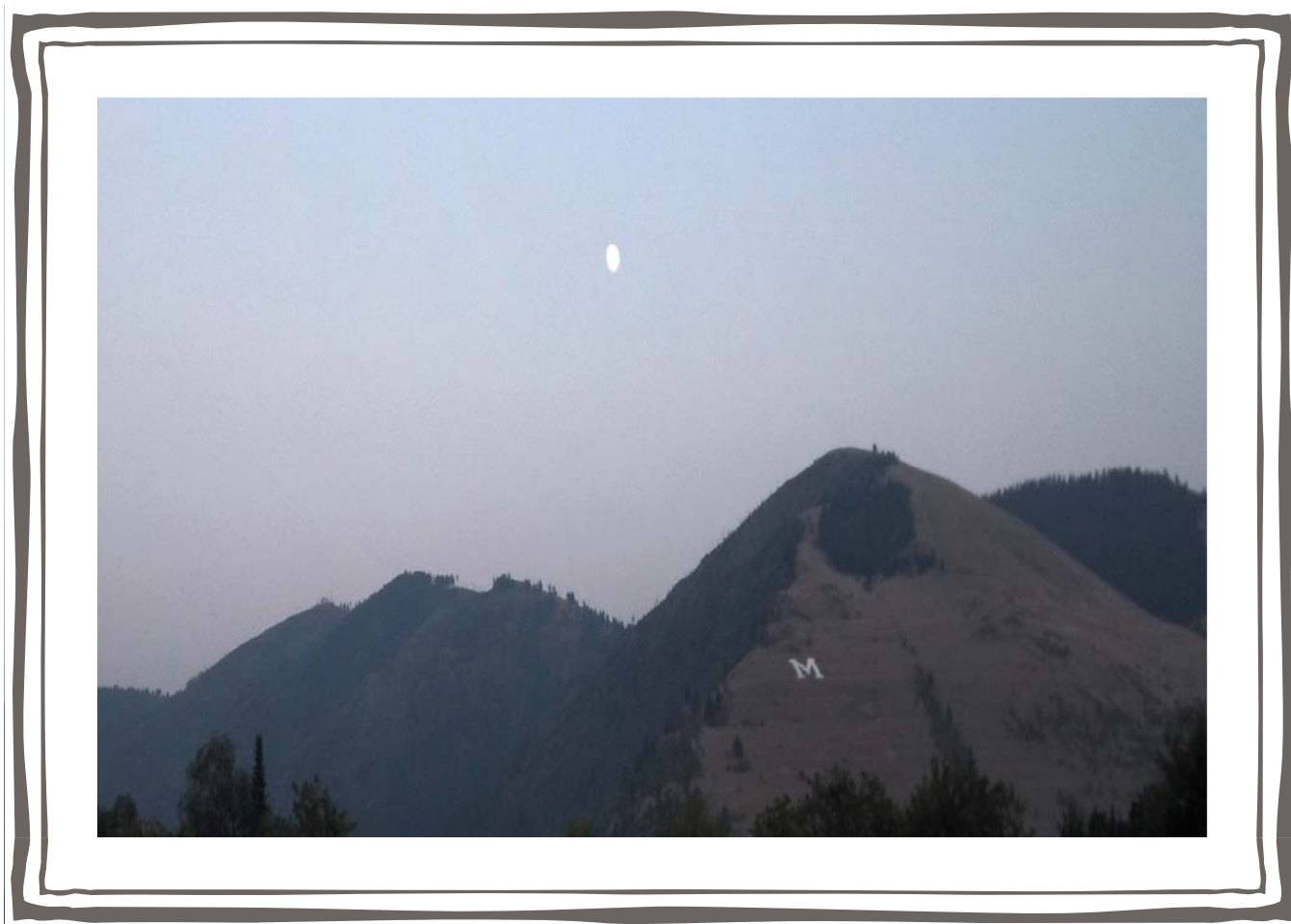
Crime Scene

Winter 2013

Volume 39, Issue 1



POSTCARD FROM MISSOULA



An early evening in Missoula with the mighty "M" illuminated by moonlight. The perfect backdrop to head out to the Mo Club for a burger!

January 2013

N W A F S N E W S L E T T E R

Editor's Message

First I want to wish all of our NWAFS members a Happy New Year! After surviving the Mayan Doom, the Fiscal Cliff and much, much, more in 2012 I think that most of us will be looking forward to a fresh start. So, the best success to you and your goals for 2013!

Second, our organization's 40th Anniversary celebration was brilliant! There was a lot of work, learning, meeting old and new contacts and of course having a lot of fun. Quite a bit of this issue is devoted to the happenings in Missoula along with our organization's business.

Third, I welcome our new NWAFS members. My simple advice to you, along with our existing members, is ***to remember why our organization was formed*** over 40 years ago:

- To encourage the dissemination of information within the fields of forensic science and to discuss problems of common interest.
- To foster friendship and cooperation among forensic scientists.
- To stimulate research and development of new techniques within the field.

In my opinion, the rewards of participating within the NWAFS organization far outweigh any work that is required. I hope that you get a chance to be involved in our organization for 2013 and beyond. I am also hopeful that you will encounter great opportunities such as the ones that I have experienced.

Thank you and enjoy 2013!

Jeff Jagmin

About the Newsletter...

Crime Scene is the official publication of the Northwest Association of Forensic Scientists. It is published 4 times a year in the months of January, April, July, and October. The Newsletter welcomes submissions from its membership such as technical tips, case studies, literature compilations, workshop or training notifications, reference citations, commentary, historical accounts, and other topics of interest to the membership. The views expressed in articles contained in this publication do not necessarily represent the views of the Northwest Association of Forensic Scientists. The Association neither guarantees, warrants, nor endorses these views or techniques but offers these articles as information to the membership.

Please submit material for publication in Microsoft Word for Windows format as an e-mail attachment or on compact disk (CD). All technical material will be subject to peer review by NWAFS members. Requests for permission of any material contained in this newsletter may be addressed to the editor. Requests, or questions, of technical submissions will be directed to the originating author. For more information regarding the Newsletter contact:

Jeff Jagmin (editor)
Washington State Patrol Crime Laboratory
Jeff.Jagmin@wsp.wa.gov or editor@nwafs.org

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NWAFS OFFICERS for 2012 - 2013

Executive Committee

President	Chris Hamburg Oregon State Police Chris.Hamburg@state.or.us
Vice-President	Kathy Kittell Oregon State Police Kathleen.Kittell@state.or.us
Member-at-Large	Devon Sommer Oregon State Police Devon.Sommer@state.or.us

Secretaries

Membership	Corinna Owsley Idaho State Police Corinna.Owsley@isp.idaho.gov
Secretary-Treasurer	Heather Campbell Idaho State Police Heather.Campbell@isp.idaho.gov
Technical	Trevor Allen Washington State Patrol Trevor.Allen@wsp.wa.gov
Editorial	Jeff Jagmin Washington State Patrol Jeff.Jagmin@wsp.wa.gov

PRESIDENT'S MESSAGE

Winter 2013

Well here it is, what you've all been waiting for...my first ever President's Message. To be honest, I never thought in a million years that I would ever be writing one of these. I never thought being the President of a group like the NWAFS was something for me. But little did I know that after starting in the Washington State Patrol Tacoma Crime Lab almost 10 years ago that I would be here staring at my computer screen attempting to come up with eloquent and inspiring words. For those of you who know me well, this is quite a challenge, but one that I am humbled to have the opportunity to attempt to complete.

If you don't recall my introduction to you two years ago as the new Member at Large, here is a short synopsis: I spent about 6 years with WSP in the Microanalysis section and as a member of the Crime Scene Response Team. I became a member of the Association in the Fall of 2003 at the Portland meeting where I also gave my first professional scientific presentation "Identification of Some Components of Pyrodex by Hot-Stage Microscopy", I know you all remember it well. I have since moved to the Oregon State Police and have worked for 4 years in the Trace Evidence section of the Portland Metro lab.

I was gently pushed into giving that first presentation by my colleagues; I was also gently nudged into becoming involved with the NWAFS board. I'm glad I was, as both experiences have been greatly rewarding. The NWAFS meetings give young scientists excellent opportunities to present work in a low pressure environment. If you are new to the forensic science community, either as a new employee or as a student, please take the opportunity to start adding to your CV. If you are an "old timer", please take the opportunity to mentor someone. You never know, they may become President someday. I don't think any of us would be where we are now without those who took us under their wings when we were starting out to give us the nudge we needed.

As far as the Association's current status, please stay tuned for an update to the website format that will include many new features. The Association now has a functioning Seminar Planning Committee that is busy working on the 2013 meeting in Vancouver, WA. Mark your calendars now for September 16-20 and check out this newsletter for some of the valuable workshops and our innovative Special Research Topics that will be offered. Additionally, the Association is planning its first ever technical working group for explosives analysis for Spring of 2013. A more in-depth description is in the newsletter.

So I'm hoping my attempt to complete the challenge with this short message has been successful. As I read through previous President's Messages to find inspiration, I found a constant theme: get involved. So I leave you with this challenge: in the next year do one thing that makes you a better member of this organization. Do some research and publish it in the newsletter, write a book review, or go to the meeting. There are countless ways to get involved, find one of them. Your involvement will make all of us better scientists.

Chris Hamburg, NWAFS President

Chris.Hamburg@state.or.us

Asked & Answered

Search tips from a forensic library

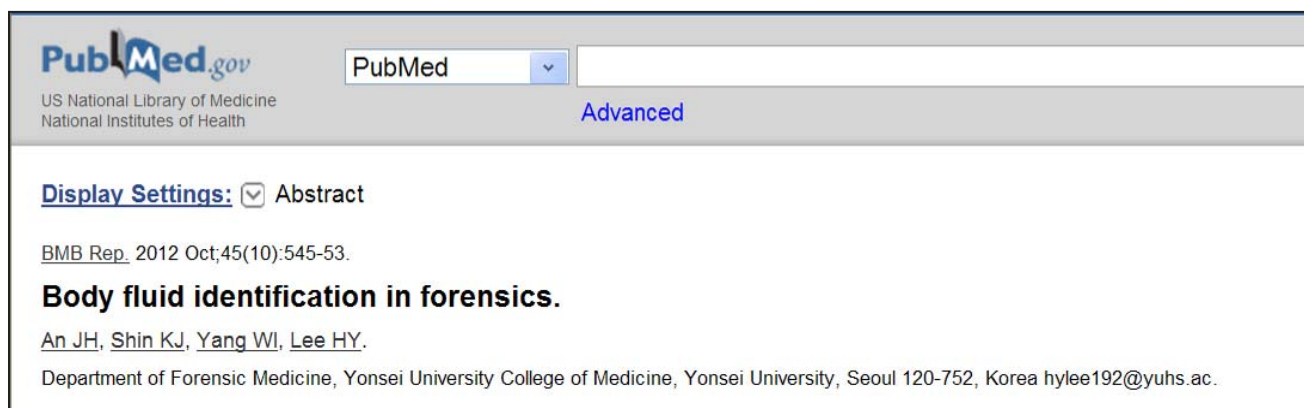
Jeff Teitelbaum, MLIS | Forensic Library Services
Washington State Patrol / Seattle Washington

Finding articles (on a crime lab budget)

Following up on my previous column's topic of no-cost forensic magazines and journals, the next mountain to climb is obtaining specific articles from journals that either require a subscription or charge per article. If you don't mind spending an average of \$40 per article (even for a half-page letter-to-the-editor!), then you need read no further. If, however, you have budget constraints, or simply an outrage at these publishing companies that pay nothing to the authors of the articles and then charge a preposterous fee for the material (are my own feelings on this matter slipping out?), there are a number of resources and techniques available to you that should increase your chances of obtaining journal articles at little or no cost.

E-mail the author

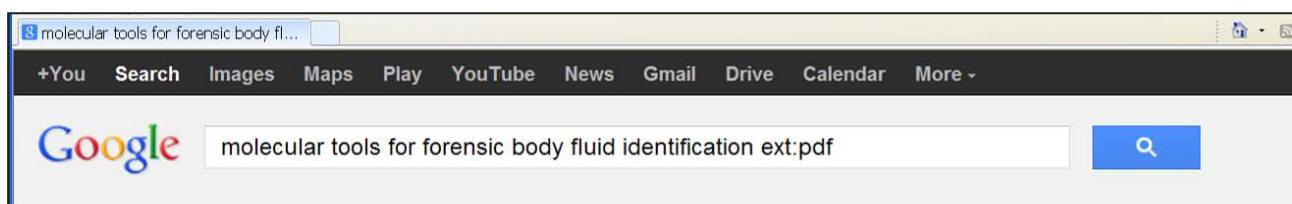
This might seem like an obvious route, but it's surprising how many people haven't considered this. I have been e-mailing authors all over the world for years and have never once been turned down. In general, the authors are happy that their material is being used and are generally quick to respond. The first place I go to find an author's e-mail address is [PubMed](#), a database which I have discussed in previous columns. Navigate to an article in which your author is the primary author, and you will most likely find the author's email address. If an email address is not available, PubMed will nearly always list the author's work organization, and it is usually possible to track down the author through the organization's website.



Google it.

I have received numerous requests for articles over the years that only required a simple search on Google to find the full-text article.

One technique that I do all the time when I'm searching for material is to force Google to return only PDF files, since a PDF is usually the format that I'm looking for. It also eliminates irrelevant websites. Just add **ext:pdf** after your search terms and you'll get only PDF files in your list of results. Try your search with and without **ext:pdf** and you'll often see dramatically different results. You can also use this formula to retrieve other types of files: **ext:ppt** will retrieve only PowerPoint files, which might be useful if you're searching for how others have presented on a given topic.



Local University

This is perhaps another obvious source of material, but if you have a state university in your area, you have the right, as a member of the general public, to browse their print collection and Xerox any material you want. Some universities will even give you access to their digital databases from computer terminals within the library.

Private universities will generally give members of the general public access to their collections, but there may be some restrictions. It's best to check before you go to see what their policies are.

Also, don't overlook the smaller schools in your area. Many of them have specialized book or journal collections that even some of the larger schools won't have.

Public Library

I'm betting that many of you will be extremely surprised at the number of resources that are available at your public library. For instance, did you know that most public libraries offer free (or very inexpensive) document delivery services? Just go online with your library card number in hand, specify the article you want, and they will find it and email it to you. And did you know that public libraries offer an amazing number of journal titles that you can access online? Free, full-text journal articles that are available for immediate download.

Document delivery: Every public library system that I know of offers a document delivery service. It's not always easy to find on their websites, so contact your library and ask them for the link. Once there, your library card will allow you to enter the citation information and request your

article, and the library will track down the material. Until the recent economic doldrums, the Seattle Public Library would find articles for you at no cost; currently they charge \$5 per article, which is still dirt cheap. They're not always the speediest in getting your article, but if you can wait, they'll usually find it. Once in awhile they're forced to get it from another library that charges their own service fee, but your library will ask you first whether you approve the additional fee or not.

Library Collection	PHOTOCOPY REQUEST FORM
Library Catalog	Use this form to request a photocopy of a magazine or newspaper article or selected pages from a book . Copyright law may limit the amount of material that can be photocopied.
Articles & Research	
E-books & Downloads	If you need help, Ask a Librarian or call 206-386-4636.
Books, Movies & Music	There is an interlibrary loan fee of \$5 for each item obtained from another library system.
Podcasts	You must have a valid Library card from The Seattle Public Library.
Special Collections	Your complete Library card number (including all the zeros): <input type="text"/> (required)
Museum Pass	First name: <input type="text"/> (required)
Interlibrary Loans	Last name: <input type="text"/> (required)
Photocopy Request Form	Email address: <input type="text"/>
Suggestions for Purchase	Phone number (including area code): <input type="text"/>

Journal databases: Most public libraries offer a wide range of online databases, many of which provide full-text articles, absolutely free of charge. For example, the Seattle Public Library offers selected years of *Forensic Science International*, *Clinical Toxicology*, *Gun Digest*, *Beilstein Journal of Organic Chemistry*, *Chemistry Review*, *Scientific American*, *New England Journal of Medicine*, and many others.

The screenshot shows the 'Library Collection' page with a green header. A sidebar on the left lists various resources: Library Collection, Articles & Research, Databases A-Z, Online Journal A-Z, Job Resources, Articles & Research Help, Digital Books & Media, Books, Movies & Music, Podcasts, and Special. The main content area is titled 'FULL TEXT ELECTRONIC JOURNAL HOLDINGS'. It features a navigation bar with letters A-Z and 'OTHER'. Below this is a search bar with the text 'Title begins with' and a dropdown menu. A second search bar below it says '-- Please select a subject category --'. The results section shows '2 records retrieved for the search: Title begins with "forensic science international"'. The first record is 'Forensic science International (0379-0738)' with links to 'Look up Article' and 'More full text options', and a date range 'from 01/01/2004 to 12/31/2006' in 'Expanded Academic ASAP, General OneFile and LegalTrac'. The second record is 'Forensic Science International (Online)' with similar links and a date range 'from 01/01/2003 to 2 months ago' in 'ProQuest Research Library'.

Many public libraries also offer access to commercial databases such as **General One File**, **Expanded Academic**, **ProQuest**, and others, all of which offer full-text to a large variety of journals, newsletters, newspaper articles, and other texts. Many also offer complete access to **Safari Books Online**, a collection of over 5,000 digital books covering all aspects of digital media (including many books on Photoshop), databases, project management, etc.

Different libraries have different names to their collection of database links, so just contact your library if you can't find the correct area.

Summary

Using the techniques and resources described above, I've had a decent amount of success obtaining journal articles at little or no cost for material that would have totaled many thousands of dollars over the years. As a librarian dealing with a large amount of material at an institutional level, there are copyright issues and royalty fees to reckon with, but for the majority of you, the fact that you are using this material for research purposes and are not reselling or profiting from the use of this material puts you on fairly safe ground in terms of fair use (see my column on "Copyright" in the Winter 2011 **Crime Scene**).

Give these ideas a try and see how they work out for you.

Jeff Teitelbaum
December 5, 2012

*To subscribe to my email alerts
on forensic-related material,
send a note to
Jeff.Teitelbaum@wsp.wa.gov*



2012 NWAFS Board Meeting Missoula, MT, September 27, 2012

Present:

Matthew Noedel, President
Chris Hamburg, Vice-President
Kathy Kittell, Member-at-Large
Jeff Jagmin, Editor
Trevor Allen, Technical Secretary
Heather Campbell, Secretary/Treasurer

Absent:

Corinna Owsley, Membership Secretary

Meeting called to order 8:06 AM

Technical Resources Secretary Report - Trevor Allen

- Formed a Seminar Planning Committee
The seminar planning committee is composed of scientists from multiple disciplines (Chemistry, Latent Prints, DNA, Trace, and Crime Scene Response). All members of the committee are from the Oregon State Police Laboratory system. The committee will work through 2013 to plan workshop ideas, make contacts with potential instructors and search out off-site activities for the meeting in Vancouver.

Members:
Brian Medlock
Darrel Hall
Odessa Wozniak
Angie Brooks
Jillian Lottridge
- Site Inspection in Vancouver, WA
Toured both the Hilton Inn and the Red Lion Inn with Lisa McDonald from Helms Briscoe. It was very helpful to have Lisa along for a site inspection. Lisa would like to be the mediator between NWAFS and hotel staff in the future when and if we have any issues.
- Trevor recommends the Hilton, 24-hr security, break out rooms open into open hall-way for vendors, need to work on free Wi-Fi, confirm per diem rate before finalizing



- Hotel Costs: \$113 (Hilton) vs \$95 (Red Lion)
- Details of both hotels to be presented in a PowerPoint at the business meeting.
- 2013 Meeting Date
Here's a list of other Fall 2013 meeting dates for the regional forensic science associations:
 - ◇ MAFS - Sept. 30-Oct. 4
 - ◇ CAC - Oct. 21 -26
 - ◇ SWAFS - ?

The availabilities of our two hotel choices in Vancouver are:

Hilton	Sept 15 - 21 and Sept. 29 - Oct. 5
Red Lion	Sept. 22 - 28

- Future Meetings
 - ◇ 2013 - Vancouver
 - ◇ 2014 - Reno, NV (w/CAC)
 - ◇ 2015 - ?

Future meetings for 2015? Oregon destinations? Springfield?

Lisa McDonald from Helms Briscoe had mentioned that we may be able to do a site inspection in Reno that's paid for by the city tourism board. She's going to look into it and let us know. She thought that the airfare, hotel and meals would be covered. This would help reduce cost to NWAFFS for site inspections.

Two hotels have contacted me asking about where we're going in 2015:

- ◇ Campbell's Resort in Chelan, WA
- ◇ Sheraton in Anchorage, AK

Discussed face-to-face meetings with Board, either at meeting site or common place, to work on solidifying the planning info. Need to get info to Jagmin in a timely fashion to put in newsletter.

Editor's Report - Jeff Jagmin

- Year summary:
 - ◊ 3 newsletters issued during this year and all direct emailed
 - ◊ 5 technical articles submitted and accepted and all successfully underwent our peer review process (2 were articles from our Tacoma meeting) – topics included bullets through fabrics, spray paint pigments, automotive clear coats, extraction technique for complex matrices and Photoshop®
 - ◊ 3 articles from Jeff Teitelbaum
- Caption this winners each receiving a \$25 gift card:
 - Winter 2012 – Brady Booth, OSP
 - Spring 2012 – Matthew Gamette, ISP
 - Summer 2012 – Mark Strongman, WSP
- Current Publication committee members include:
 - Megan Ashton, Montana Forensic Science Division
 - Amy Jagmin, Washington State Patrol Crime Laboratory
 - Jennifer Malone, Wyoming State Crime Laboratory
 - Steven Stone, Washington State Patrol Crime Laboratory
- Best Independent Newsletter Submission Contest Winner
 - The Effect of Pigment Type on Pigment Variation due to Differential Mixing in Spray Paints*, Kris Gates, Oregon State Police Forensic Laboratory
- Suggest that if anyone has a “Free Registration Coupon” prior to 2009 that it becomes invalid unless they use it at the Vancouver meeting. Recommend that we notify our membership of this through our newsletter as notice. Need to put expiration dates (3 yrs?), send out certificates in newsletter & letterhead
- Do we have official letterhead? What is Corinna currently doing with new members - letter to new members, email?
- YMLP Update (All data/information collected on 9/20/2012)
 - 11 messages sent - 3 NWAFS newsletters, 5 training announcements and 3 SWGDRUG/DNA information notes
 - ◊ Winter newsletter – 14.5% unique opens
 - ◊ Spring newsletter – 16.7%
 - ◊ Summer newsletter – 19.5%
 - ◊ WVU Training Announcement (sent out on 9/13) – 27%
 - ◊ NIST Training Announcement (sent out on 9/18) – 24%

Membership Secretary Report - Corrina Owsley (by Heather Campbell)

Applicants for Provisional Regular Member:

Gretchen Anderson	OSP Crime Lab, Clackamas, OR
Tina Mattox	ISP Forensics, Pocatello, ID

Applicants for Provisional Associate Membership:

Michelle Scott	Dept. of Defense, Dover AFB, DE
Jeff Teitelbaum	WSP Crime Lab, Seattle, WA
Kathleen Vernon-Kuichek	Albany Co. Coroner, Laramie, WY
Teresa "Lilly" White	Univ. of Montana, Missoula, MT

The following provisional regular members have attended at least one meeting or participated on a committee and have been members for at least one year.

Provisional Regular to Regular (voting) Member:

Beau Baggenstoss	WSP Crime Lab, Cheney, WA
Krista Bernadt	DEA Western Lab, San Francisco, CA
Trevor Chowen	WSP Crime Lab, Vancouver, WA
Marion Clark	WSP Crime Lab, Tacoma, WA
Calvin Davis	OSP Crime Lab, Pendleton, OR
Kristina Hoffman	WSP Crime Lab, Marysville, WA
Sheri Jenkins	WSP Crime Lab, Cheney, WA
Alison Pierce	WSP Crime Lab, Cheney, WA
Caron Pruiett	WSP Crime Lab, Vancouver, WA
Teresa Shank	WSP Crime Lab, Vancouver, WA
Steve Stone	WSP Crime Lab, Seattle, WA
David Stritzke	WSP Crime Lab, Vancouver, WA
Daniel Van Wyk	WSP Crime Lab, Marysville, WA
Anna Wilson	WSP Crime Lab, Cheney, WA
Susan Wilson	WSP Crime Lab, Tacoma, WA

Life Member Nominations

No nominations for 2012

New Board Position Openings:

The following positions are open for nominations and will be filled at the Fall 2012 meeting: Member-At-Large, Vice President, President, and Editor

Current NWAFS Membership:

Regular Members	195
Provisional Regular Members	50
Associate Members	33
Provisional Associate Members	0
Life Members	11

Resigned Members 2012

Skyler Anderson (7/22/2012)
Robinette Struckel (4/4/2012)
Beverly Villarreal (6/19/2012)

Total	289
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Secretary/Treasurer Report-Campbell

- Board decided to raise our "Caption This" award from \$20 to \$25
- NWAFS was reinstated as a non-profit corporation on April 9, 2012 after being dissolved on December 9, 2012 for failure to file required annual report.
- 2011 taxes via Form 990-N on-line.
- Purchased a new laptop and Quickbooks that Corinna (Membership Secretary) and I are sharing.
- Retrieved the data off the old laptop, in disk form, still don't have hardcopy.

Account	9/21/12	9/20/11	Difference
Chase Business Select Checking	\$40,905.21	\$27,473.58	\$13,431.63
Chase Business Select High Yield Savings	\$48,951.38	\$58,881.01	\$9,929.63
Dreyfus Liquid Assets Class 1	\$25,765.83	\$25,765.83	\$0
Total Assets	\$115622.42	\$112120.42	\$3,502.00

2011 Income

• interest on savings acct	\$68.59
• Membership dues	\$8100.00
• Tacoma Meeting	\$387.51
	<hr/>
Total	\$8556.10

2011 Expenses

• "Caption This"	\$80.00
• Borngasser "Thank you"	\$258.45
• Taxes	\$475.00
• Laptop	\$665.94
• Quickbooks	\$159.99
• Books	\$18.67
• YMLP account	\$85.56
• Adobe CS5 Photoshop	\$1438.78
• Office supplies	\$43.02
• Shipped Treasurer items	\$114.01
• Peak internet	\$99.96
• Borngasser software update	\$197.99
• Allen Missoula travel	\$167.84
	<hr/>
Total	\$3,805.21

A brief summary of the 2012 meeting:

~\$11,500 in registration, ~\$4500 vendors, (~\$10,000 less than last year)

Main goals for Board for 2013

- Letterhead (update/order more)
- Update Website
- Establish Rules for Meetings
 - ◊ Who do we pay for?
 - ◊ What do we cover?
 - ◊ Noedel suggested Tech Sec to establish some guidelines, break it down to presentation length
- Noedel suggested revisiting the 1/6 rule, have to participate to remain member
- Low numbers, no law enforcement, fire personnel in attendance (great arson class)
- Need to get info out, Kittell volunteered to head start for Vancouver meeting
- Thank you to Montana for helping sit at registration desk, etc.

Meeting closed 9:05 AM



Matt Noedel

A Very Large NWAFS

Thank You!



A very big thank you goes out to our good friend, and our past NWAFS president, Matt Noedel! Matt stood up at our 2010 Portland meeting and not only offered to put on the 2011 Tacoma meeting, he offered his leadership and vision. After 2 years of his latest NWAFS stint, he is giving the keys back to the board to drive. Working with him was a pleasure and his guidance was always steady. I hope that the board continues with the advancement of the NWAFS with the energy that Matt has provided us.



NWAFS 41st Annual Meeting

Vancouver, Washington

September 15-21, 2013

The Northwest Association of Forensic Scientists' annual training conference will be taking place on the banks of the mighty Columbia River. Our meeting consists of technical workshops, scientific presentations and an opportunity to participate in a special research topic.

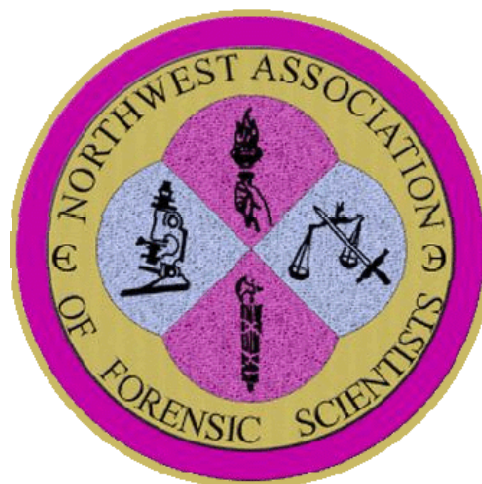
Some of the tentative workshops include:

- DNA Mixtures
- Y-STR
- BSPA on clothing
- Latent Blood Detection
- Synthetic Cannabinoids
- Black Powder Synthesis

Our Special Research Topics will include the areas of:

- Firearms
- Impressions
- Crime Scenes

September 15-21, 2013
Vancouver Hilton
Hilton Website



NWAFS 41st Annual Meeting

Vancouver, Washington

September 15-21, 2013

Save the date!

Vancouver Hilton Hotel
301 West 6th Street
Hilton Website
360-993-4500



About the hotel:

- \$113 per nite
- Wi-Fi
- Fitness Center and Pool

Close to:

- Portland International Airport is 12 miles away
- Esther Short Park
- Amtrak Station
- Columbia River promenade

Things to do and see:

- Fort Vancouver
- Downtown Portland is 8 miles away
- Mt. St. Helens
- Mt. Hood
- Washington/Oregon Coast

**Registration forms will be available in the near future.
Please check the NWAFS website
frequently for updates.**

2012 NWAFS Business Meeting Missoula, MT, September 27, 2012



Meeting called to order at 2:00 pm

Board members in attendance:

President - Matt Noedel
Vice President - Chris Hamburg
Member-At-Large - Kathy Kittell
Editor - Jeff Jagmin
Technical Secretary - Trevor Allen
Secretary/Treasurer - Heather Campbell

Quorum required: 15, have 13, waiting on 2 more

- Opened up floor to what the members want in future meetings:
 - Discussed importance of Special Research Topics
 - Want round table discussions (discipline specific), write legislation
 - Writing grants/reviewing grants (Grants.gov)
 - Workshops in combo with Vendors
 - Solid DNA 3500 Validation class, a "How to"
 - Switching to Hydrogen from Helium in GC/MS
 - Forum of lab managers
 - Drinking labs
 - DRE
 - Open to public?
 - Up and coming drugs/transportation methods, educate law enforcement

Have 16 voting members, begin conducting official business at 2:15 PM

Technical Resource Secretary Report - Trevor Allen

Formed a Seminar Planning Committee

The seminar planning committee is composed of scientists from multiple disciplines (Chemistry, Latent Prints, DNA, Trace, and Crime Scene Response). All members of the committee are from the Oregon State Police Laboratory system. Thank you for stepping up to help! The committee will work through 2013 to plan workshop ideas, make contacts with potential instructors and search out off-site activities for the meeting in Vancouver.

Seminar Planning Committee Members:

Brian Medlock
Darrel Hall
Odessa Wozniak
Angie Brooks
Jillian Lottridge

Site Inspection in Vancouver

Toured both the Hilton Inn and the Red Lion Inn with Lisa McDonald from Helms Briscoe. It was very helpful to have Lisa along for a site inspection. Lisa would like to be the mediator between NWAFS and hotel staff in the future when and if we have any issues.

Details of both hotels were presented in a PowerPoint.

2013 Meeting Date

Here's a list of other Fall 2013 meeting dates for the regional forensic science associations:

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CAC	Oct. 21 -26
SWAFS	?

The availabilities of our two hotel choices in Vancouver are:

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Red Lion	Sept. 22 – 28



Future Meetings

2013 – Vancouver

2014 – Reno, NV (joint meeting w/CAC)

2015 – ?

Lisa McDonald from Helms Briscoe had mentioned that we may be able to do a site inspection in Reno that's paid for by the city tourism board. She's going to look into it and let us know. She thought that the airfare, hotel and meals would be covered. This would help reduce cost to NWAFFS for site inspections.

Two hotels have contacted me asking about where we're going in 2015:

- ◇ Campbell's Resort in Chelan, WA
- ◇ Sheraton in Anchorage, AK

Goals

Ideas for workshops set by new year, get abstracts out early (January)

Get ideas to Trevor, at least topics

Site inspection in Vancouver, WA at Hilton(\$113/nite) & Red Lion(\$99/nite)

No one offered to host a meeting

Motion made by Noedel to accept Hilton the week of Sept 15-21, 2013

Moved by: Mike Howard

Seconded by: Chris Hamburg

All ayes, none opposed

Editor's Report - Jeff Jagmin

- Year summary:
 - ◇ 3 newsletters issued during this year and all direct emailed
 - ◇ 5 technical articles submitted and accepted and all successfully underwent our peer review process (2 were articles from our Tacoma meeting) – topics included bullets through fabrics, spray paint pigments, automotive clear coats, extraction technique for complex matrices and Photoshop®
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- Suggest that if anyone has a “Free Registration Coupon” prior to 2009 that it becomes invalid unless they use it at the Vancouver meeting. Recommend that we notify our membership of this through our newsletter as notice.
 - ◊ “Free registration” coupons have 3 year deadline
- Do we have official letterhead? What is Corinna currently doing with new members - letter to new members, email?
- YMLP Update (All data/information collected on 9/20/2012)
 - 11 messages sent - 3 NWAFS newsletters, 5 training announcements and 3 SWGDRUG/DNA information notes
 - ◊ Winter newsletter – 14.5% unique opens
 - ◊ Spring newsletter – 16.7%
 - ◊ Summer newsletter – 19.5%
 - ◊ WVU Training Announcement (sent out on 9/13) – 27%
 - ◊ NIST Training Announcement (sent out on 9/18) – 24%
- Reminded everyone that YMLP is available for everyone to post information
 - ◊ Goal is to increase communication, reach the 65 - 70% of membership

Membership Secretary Report - Corrina Owsley (by Heather Campbell)

Applicants for Provisional Regular Member:

Gretchen Anderson	OSP Crime Lab, Clackamas, OR
Tina Mattox	ISP Forensics, Pocatello, ID

Applicants for Provisional Associate Membership:

Michelle Scott	Dept. of Defense, Dover AFB, DE
Jeff Teitelbaum	WSP Crime Lab, Seattle, WA
Kathleen Vernon-Kuichek	Albany Co. Coroner, Laramie, WY
Teresa “Lilly” White	Univ. of Montana, Missoula, MT

The following provisional regular members have attended at least one meeting or participated on a committee and have been members for at least one year.

Provisional Regular to Regular (voting) Member:

Beau Baggenstoss	WSP Crime Lab, Cheney, WA
Krista Bernadt	DEA Western Lab, San Francisco, CA
Trevor Chowen	WSP Crime Lab, Vancouver, WA
Marion Clark	WSP Crime Lab, Tacoma, WA
Calvin Davis	OSP Crime Lab, Pendleton, OR
Kristina Hoffman	WSP Crime Lab, Marysville, WA
Sheri Jenkins	WSP Crime Lab, Cheney, WA
Alison Pierce	WSP Crime Lab, Cheney, WA
Caron Pruiett	WSP Crime Lab, Vancouver, WA
Teresa Shank	WSP Crime Lab, Vancouver, WA
Steve Stone	WSP Crime Lab, Seattle, WA
David Stritzke	WSP Crime Lab, Vancouver, WA
Daniel Van Wyk	WSP Crime Lab, Marysville, WA
Anna Wilson	WSP Crime Lab, Cheney, WA
Susan Wilson	WSP Crime Lab, Tacoma, WA

Life Member Nominations

No nominations for 2012

New Board Position Openings:

The following positions are open for nominations and will be filled at the Fall 2012 meeting: Member-At-Large, Vice President, President, and Editor

Current NWAFS Membership:

Regular Members	195
Provisional Regular Members	50
Associate Members	33
Provisional Associate Members	0
Life Members	11
Total	289



Resigned Members 2012

Skyler Anderson (7/22/2012)
 Robinette Struckel (4/4/2012)
 Beverly Villarreal (6/19/2012)

Motion made by Matt Noedel to accept new members or advance members

Moved by: Mike Howard

Seconded by: Robert Thompson

All ayes, none opposed

Secretary/Treasurer Report - Heather Campbell

- Board decided to raise our "Caption This" award from \$20 to \$25
- NWAFS was reinstated as a non-profit corporation on April 9, 2012 after being dissolved on December 9, 2012 for failure to file required annual report.
- 2011 taxes were filed via Form 990-N on-line
- Purchased a new laptop and Quickbooks that Corinna (Membership Secretary) and I are sharing
- Retrieved the data off the old laptop, in disk form, still don't have hardcopy.

Account	9/21/12	9/20/11	Difference
Chase Business Select Checking	\$40,905.21	\$27,473.58	\$13,431.63
Chase Business Select High Yield Savings	\$48,951.38	\$58,881.01	\$9,929.63
Dreyfus Liquid Assets Class 1	\$25,765.83	\$25,765.83	\$0
Total Assets	\$115622.42	\$112120.42	\$3,502.00



2011 Income

• interest on savings acct	\$68.59
• Membership dues	\$8100.00
• Tacoma Meeting	\$387.51
	<hr/>
Total	\$8556.10

2011 Expenses

• "Caption This"	\$80.00
• Borngasser "Thank you"	\$258.45
• Taxes	\$475.00
• Laptop	\$665.94
• Quickbooks	\$159.99
• Books	\$18.67
• YMLP account	\$85.56
• Adobe CS5 Photoshop	\$1438.78
• Office supplies	\$43.02
• Shipped Treasurer items	\$114.01
• Peak internet	\$99.96
• Borngasser software update	\$197.99
• Allen Missoula travel	\$167.84
	<hr/>
Total	\$3,805.21

**President's Report - Matt Noedel**

- Dwindling #s, Revisit 1/6 rule, require participation 1 out of 6 meetings (or 1 out of 3)
- Thanks to Montana State Patrol Crime Lab for their assistance
- Improve marketing
- Combine with law enforcement/legal/colleges
- Create liaison with ABC
- Dwindling participation parallels digital realm, maybe go back to printed copy?

- Do we have a membership committee?
- Effective by Vancouver meeting, void all prior registration coupons, will be printed in newsletter.
- Ideas from members
 - ◊ Advertise thru ASTEE, for trace (Ammen)
 - ◊ Extent of Agencies supporting organization (Thompson)
 - ◊ Target big cities to get more bang for buck (Hoffmann)
 - ◊ Grants from Montana Board of Crime Control (Harris)
 - ◊ ABC/IAI, etc certification points/proxy tests (Campbell)

New Board position openings

- **President, No nominations heard from the floor, Chris Hamburg nominated by Matt Noedel**
Motion made by: Mike Howard
Seconded by: Bahne Klietz
All ayes, none opposed
- **Vice-President, Noedel nominated Kittell to move up to Vice President**
Motion made by: Chris Hamburg
Seconded by: Judi Hoffman
All ayes, none opposed
- **Member-At-Large, Chris Hamburg nominated Devon Sommer who accepts this position on behalf of Hamburg, no other nominations**
Motion made by: Analivia Harris
Seconded by: Kathy Kittell
All ayes, none opposed
- **Editor, Jeff Jagmin nominated by Noedel, Jagmin accepted.**
Motion made by: William Schneck
Seconded by: Analivia Harris
All ayes, none opposed

Secretary/Treasurer will open 2013
 Technical Secretary will open 2013
 Membership Secretary will open 2014

No further business.

Meeting closed at 3:55 pm



Official NWAFFS Notification!

The NWAFFS organization's record keeping and business transactions are currently being reviewed and modified as needed. It was agreed at the 2012 meeting that anyone who is possessing a "free registration" voucher/letter issued before 2010 must redeem it at the Vancouver, WA meeting or it will be null and void.

In searches of our records prior to 2010 (page turning of copies of our newsletter) on who was our last recipient of a "free registration" voucher, I came across Chesterine Cwiklik. Record of this can be found in the 2003 Winter newsletter - needless to say I did not continue searching further.

This is your last chance so please be sure to redeem your "free registration" voucher for the Vancouver meeting!

Here is some additional clarity on this contest. Any NWAFFS member is eligible for this contest and is automatically entered when one submits an interesting note, informative article or research project that is accepted for publication into the ***Crime Scene*** newsletter. The "best" contribution is selected by the Editor and submitted to the board for approval at our yearly board meeting. If there are multiple authors I, the Editor, will advise the authors to have them submit to me who they would like to receive the award. The award will be announced in the newsletter along with the winner receiving an official letter to be used for submission. The award can only be used once and does expire in 3 years from the board meeting when it was voted on. The award winner gets "free registration" for a NWAFFS meeting.

Winner of the 2012 NWAFS “Best Independent Newsletter Submission”!

Kris Gates

Oregon State Police Forensic Laboratory



Congratulations Kris! Check out her paper, *The Effect of Pigment Type on Pigment Variation due to Differential Mixing in Spray Paints* in *Crime Scene*, Spring 2012. Kris, you are awarded free registration for one meeting which can be used for either the 2013, '14 or '15 NWAFS meeting!

2011 Winners!

Mark Strongman and Martin McDermot

Washington State Patrol Crime Laboratory

Both are still eligible for the 2013 or '14 NWAFS Meeting!

Meet our Newest Board Member!

Member-at-Large

Devon Sommer

In 1995, I received my undergraduate degree in Chemistry from the University of South Dakota and sent out several hundred resumes and cover letters. After compiling an impressive collection of rejection letters, I was asked if I was interested in staying on with USD for graduate work. Without any better options, and my to-be-wife also attending graduate school, how could I say no? While taking a course in scientific writing, I stumbled upon the topic of testing for steroids in sports and was introduced to the world of forensics. After that, I thought forensics would make a fine career choice. We had visited Oregon on a post-graduate road trip and thought if we had an opportunity we would love to venture west.

After receiving my graduate degree, also in Chemistry, I applied with the Oregon State Police with the mistaken belief it would be a relatively quick process. When it became apparent things would take some time, I took a position with a pharmaceutical company in Lincoln, Nebraska testing over the counter medications for potency after storage. It was a great introduction into laboratory work and documentation. Then in early 1998, I was offered a position with OSP in the Portland laboratory as a drug chemist. In May we packed all we owned, plus the dog, into a U-Haul and headed west where I have been since.

I worked as a drug chemist for about two years and then transferred into the Primary Examinations section, which most would consider Serology. We examine evidence from homicides, sexual assaults and assaults and screen the evidence for any probative evidence. We will collect or sample the probative items and send them on to one of the specialty units for confirmation, typically DNA. Over the years, I have also added processing work in Firearms and Trace, thus bringing back the role of the generalist. I also am a member of the laboratory call out team and will respond to crime scenes, which are usually homicides.

Outside of work, my wife Kristi and I spend time with our children, boys ages 10 and 7, and a girl age 3 whose schedules keep us pretty busy. But, as time allows, I enjoy spending time outdoors hunting, fishing, snowboarding, brewing beer, and coaching (and playing) lacrosse.



NWAFS SWG/TWG ANNOUNCEMENT

In an attempt to be more active than once a year meetings and to involve more of our membership, the NWAFS is establishing regional technical working groups. Although the SWGs, TWGs, and recent NIJ symposia have been valuable resources for the forensic community at large, the opportunity to be involved and attend these functions is not widely available to our membership. It is the board's opinion that this is also part of the Association's responsibility to provide these types of opportunities when feasible.

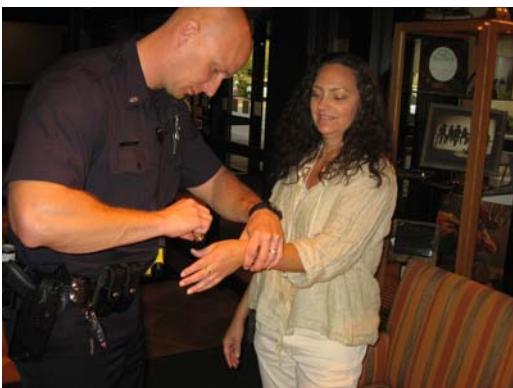
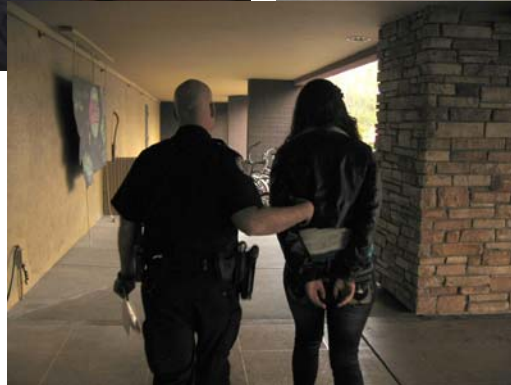
So, for our first effort we are focusing on explosives programs. The agencies of our region have a wide range of experience and service levels and the sharing of their successes and failures will help in everyone's improvement. Topics may include: writing training plans, standardizing procedures methods for the region, minimum equipment requirements for starting a program, hands on training, blowing things up, etc. These topics will be determined by the participants. You and your agency will get the opportunity to guide the discussion.

The NWAFS will sponsor this meeting by providing a significant amount of the funding. This meeting will be held at the WSP-Seattle Crime Lab and is only open to those members who are employed by public laboratories. If you are interested or have any questions please contact Jeff Jagmin (WSP-Seattle, Jeff.jagmin@wsp.wa.gov, 206-262-2060) or Chris Hamburg (OSP-Portland Metro, chris.hamburg@state.or.us, 971-673-8230). Dates are to be determined but we are hopeful to make this happen in spring 2013. More on this topic will be shared via email.



An Inside Look at the 2012 NWAFS Special Research Topics





2012 NWAFS Meeting Technical Abstracts

Review of the NWAFS Research Workshop I: Temperature of Ejected Cartridge Cases

Matthew Noedel, Noedel Scientific; Robert Thompson, NIST; James Krylo, LVMPD Crime Laboratory; Pat Lippiello, City of Tucson PD Crime Laboratory

The Northwest Association of Forensic Scientists offered a research based workshop that involved the examination of the surface temperature of ejected semiautomatic cartridge cases. A variety of calibers and designs of cartridges were test fired and the fired cartridge cases captured. Attempts were made to record the surface temperature of the fired cartridge cases immediately after ejection to better understand the characteristics and potential of an expended cartridge case burning a person who is struck by the fired case.

Review of the NWAFS Research Workshop II: Chemical Enhancement of Footwear Impressions Using Soils of the Pacific Northwest

Jeff Jagmin, WSP Crime Lab; Chris Hamburg and Devin Mast, OSP Forensic Division; Natasha Wheatley, ISP Bureau of Forensic Sciences

Forensic enhancement of residual soil such as left in footwear impressions can be affected by the various components present in the soil. Different locations may lend to enhancement with a variety of chemicals therefore soils from various regions of the Pacific Northwest were collected for this study. The soils were checked for reactivity (color reaction) with the following chemical enhancements: potassium thiocyanate, potassium ferrocyanide, dipyridil and bromophenol blue. Substrates which were chosen to be used for the application of soiled impressions were: paper, cardboard, porcelain tile, vinyl tile and wood boards. The reactivity of these substrates was first checked against the chemical enhancements for any interferences. The same shoe was used to create a dry and wet soil impression onto the substrates. The impressions were photographed and were then sprayed with the chemical enhancements and photographed. The results were evaluated to determine if there is a general, or optimal, chemical enhancement method that works for the soils of the different regions of the Pacific Northwest.



Review of the NWAFS Research Workshop III: Gunshot Residue Transfer from a Shooter to a Non-Shooter during Evidence Collection

Annalivia Harris and Bahne Kleitz, Montana State Crime Lab

Previous studies have shown that gunshot residue particles (GSR) can be found on law enforcement officers, their vehicles, and their equipment. This study attempts to address the question of whether or not GSR can be transferred from law enforcement officers to known non-shooters. Typically, GSR kits include a hand wipe and gloves to help prevent law enforcement from contaminating GSR evidence. The first part of this project addressed whether or not the hand wipes and gloves actually prevent contamination. This was done by having a known shooter collect GSR from a known non-shooter, first without using the hand wipe or wearing gloves, then repeating process using the hand wipe and gloves. The second part of this project involved law enforcement agents from the Missoula Police Department (MPD) collecting GSR from known non-shooters. This was done by having officers collect evidence in the field and at the police station. None of the police officers involved in the second part of this study used hand wipes, washed their hands prior to collecting the GSR evidence, nor wore gloves. All of the GSR evidence was analyzed by scanning electron microscopy with an energy dispersive X-Ray detector. The data was compared and the results reported.

Can a Distinction be Made Between Traumatically Induced Gunshots Wounds and Heat-related Trauma After a Car Fire?

Teresa "Lilly" White, University of Montana

Forensic anthropologists ordinarily categorize traumatic occurrences as resulting in blunt force, sharp force, or gunshot trauma. In this study, a 14 lb. biological specimen of a pig (*Sus scrofa*) cadaver was inflicted with 5 gunshot wounds with a P22 Walther Smith & Wesson pistol while dressed in a pink one-piece outfit, photographed, and positioned in a baby car seat. The pig was thenceforth placed in the back seat of a Buick Century 1993 sedan. On the back seat next to the experimental pig, a control pig of corresponding size and shape was placed directly on the seat. No trauma was inflicted on the control pig. After placement-photographs, temperatures, and other relevant data were recorded. The pigs were burned in conjunction with training exercises conducted by the Missoula County Fire Department #4 in Missoula, Montana. Following the burn, the charred bodies of the pig cadavers were collected and subjected to macroscopic analysis and then reduced to skeletal fragments to accurately compare post burn with pre-burn records. It is crucial for forensic anthropologists to accurately interpret traumatically induced perimortem or antemortem trauma as opposed to heat-related trauma. As you may expect, it is very difficult to differentiate between the two; however, it is not impossible. Forensic anthropology is a progressive discipline that consistently searches for authenticity utilizing the scientific method. More research is needed to develop consistent standards that can be tested and retested so forensic anthropologists can share their knowledge with death investigators and medico-legal personnel. It is crucial that these professionals work together to come to a common consensus to aid in determining cause and manner of death when trauma is involved.

Can We Differentiate Traumatically Induced Blunt Force Trauma From Fire-related Trauma Following a Car Fire?

Teresa "Lilly" White, University of Montana

Forensic anthropologists routinely categorize traumatic events as resulting in blunt force, sharp force, or gunshot trauma. In this study, 4 biological pig (*Sus scrofa*) specimens were utilized. The first study was conducted on May 9, 2012 while the second study was conducted on July 10, 2012. During the first study, one of the biological specimens was clothed in a one-piece baby outfit, and placed under the back tire of a SUV and ran over to simulate blunt force trauma. Careful attention was paid to run over just the pelvis and lower limbs. After the specimen was ran over, it was wrapped in carpet and placed in the trunk of a sedan. A control pig was also placed in the trunk near the 1st specimen. No trauma was inflicted on the control pig. After placement of the specimens-photographs, temperatures, and other relevant data were recorded. The pigs were burned in conjunction with training exercises conducted by the Missoula County Fire Department #4 in Missoula, Montana. After the burn, the pigs in the trunk were literally untouched by the fire. Another burn was executed, with only a few alterations being made. The experimental pig in the second study was also driven over using the same method as before, while an untouched control pig was likewise placed near the experimental specimen in the trunk of a sedan. The only change that was made to the experiment was that the trunk was propped open to support the ideal fire tetrahedron. After the burn, there were considerably more damages to both specimens than those exposed to the first burn. It is crucial for forensic anthropologists to accurately interpret traumatically induced perimortem or antemortem trauma as opposed to heat-related trauma. As you may expect, it is very difficult to differentiate between the two; however, it is not impossible.

Cross Check Validations of Chronographs and Shot Timers Using Hi-Speed Video

James Krylo, Las Vegas Metropolitan Police Department

This presentation will discuss the problems associated with performing validations of laboratory instrumentation for which no practical standards exist. The solution used by the LVMPD Forensic Laboratory was to do a dual method cross check of instrument performance. The instrumentation and methods covered in this presentation will be:

1. Projectile velocity measured with a Oehler chronograph vs. the velocity determined using a Redlake Motion-Pro hi-speed video camera
2. Rate of fire determination measured with a PACT shot timer vs. the rate of fire determination captured on the hi-speed video.



Proposed “NIST Ballistics Identification System (NBIS)” Based on 3D Topography Measurements on Correlation Cells

Robert M. Thompson, Jun-Feng Song, Law Enforcement Standards Office-NIST

The proposed “NIST Ballistics Identification System (NBIS)” using 3D topography measurements on correlation cells can facilitate high accuracy and fast ballistics identification and evidence searches. The correlation cells can identify “valid correlation areas” and eliminate “invalid correlation areas” from identification. The proposed “synchronous processing” can significantly increase correlation speed.

Based on the concept of correlation cells, a Congruent Matching Cells (CMC) method using three identification parameters is proposed for ballistics and toolmark identifications and for high accuracy and fast ballistics evidence searches. The proposed method can be used for correlations of both geometrical topographies and optical intensity images. All the parameters and algorithms are in the public domain and subject to open tests. An error rate reporting procedure can be developed that can greatly add to the scientific support for the firearm and toolmark identification specialty, and give confidence to the trier of fact in court proceedings.

The PowerPlex® Y23 System: A single system for casework and database (direct amplification) Y-STR analysis

Kimberly Huston, Promega Corporation

Y-STR testing is an established tool in the forensic casework, paternity testing and genealogy communities. The PowerPlex® Y23 System combines the seventeen Y-STR loci in current commercially available Y-STR kits (DYS19, DYS385a/b, DYS389I/II, DYS390, DYS391, DYS392, DYS393, DYS437, DYS438, DYS439, DYS448, DYS456, DYS458, DYS635, Y-GATA-H4) with six new highly discriminating Y-STR loci (DYS481, DYS533, DYS549, DYS570, DYS576, DYS643). The additional loci and increased gene diversity increases scientists’ ability to distinguish individuals from different paternal lines from one another, enabling more meaningful analyses.

The PowerPlex® Y23 system is a robust multiplex highly tolerant of many amplification inhibitors, including hematin, humic acid, and tannic acid. The system has proven sensitivity, detecting minimal amounts of male DNA in the presence of excessive amounts of female DNA. Complete Y-STR profiles are detected with 62pg of male DNA in the presence of 400ng female DNA (6450-fold excess). This Y-STR system is an excellent tool for testing in sexual assault cases in which sperm was not detected from intimate swabs collected from female victims. The PowerPlex® Y23 system also supports direct amplification from a variety of substrates, including blood and buccal samples on FTA® paper (GE Healthcare/Whatman) and other commonly used paper substrates. This system produces reliable Y-STR profiles from swabs when processed with Promega’s Swab-Solution™ Kit. Additionally, Y-STR amplification with this system provides significant time savings due to a reduced cycling time of 90 minutes--less than half the time required for other available Y-STR kits. By offering superior inhibitor tolerance, proven sensitivity, and protocols for both casework and databasing, the PowerPlex® Y23 System sets a new standard for Y-STR analysis.

Geoforensics and the Scientific Working Group for Geological Materials (SWGGE0)

William Schneck, Washington State Patrol Crime Lab

The Scientific Working Group for Geological Materials (SWGGE0) is a new group funded by the Department of Defense and The Research Triangle International that was established in 2012. SWGGE0 is composed of an international team of geologists, botanists, soil scientists and GIS experts from state, federal and private crime laboratories including university researchers. SWGGE0 will initially work on three main documents; a standard guide on the collection of soil and geological material, a standard guide on the forensic analysis of soil, and a guide on the forensic analysis of geological material for geo-sourcing and intelligence gathering. SWGGE0 will establish educational and training requirements for practitioners, and foster the publication and presentation of research within the forensic community. This international effort will involve standardization to improve and promote forensic geoscience for use in criminal and intelligence cases.

In the USA there are a limited number of forensic science practitioners conducting soil analysis at a variety of levels from eliminations and soil color comparisons to actual mineralogical and particle analysis. Close to 25% of forensic science service providers within the United States analyze soil evidence to some limited degree in trace evidence casework. This talk will focus on the development of SWGGE0 and give a variety of casework examples of when soil and geological materials are useful in criminal and civil investigations.

Record Methamphetamine Seizure

Jason Henninger, Drug Enforcement Administration

On March 2, 2012, Palo Alto (CA) PD searched a townhome for stolen property. After recovering the stolen item, officers searched the premise and found a storage space behind the closet in the children's bedroom being used to store methamphetamine in suitcases, backpacks, bags, and gasoline carboys. A record 750 lbs of methamphetamine was seized as a result of the find. Chemists from the DEA Western Laboratory, San Francisco, responded to the site to assist in the sampling of the material and performed the subsequent analysis of the seizure. This presentation will provide an overview of the challenges of sampling such a large seizure, safety and personal protective equipment considerations on-site, and the analytical findings from the chemical testing.



Forensics Around The World*Karen Green, Green Forensics*

For 25 years the United States Department of Justice has provided forensic training around the world through their ICITAP program (International Criminal Investigative Training Assistance Program). Although training programs include many public safety fields such as Corrections, IT, Border Security, and Terrorism, this talk will focus on Forensics and the speaker's experiences/challenges while mentoring and training officers and forensic scientists in Latin America. Her current work in the federal crime labs of Mexico as they prepare to gain ISO 17025 accreditation will be highlighted.

*All opinions expressed are those of the speaker and do not represent those of the DOJ or ICITAP

Identification of Synthetic Cannabinoids and Their Isomers*JW Robinson, Montana State Forensic Science Division*

The number of synthetic cannabinoid submissions to the Montana State Crime Laboratory has steadily increased over the past year. Synthetic cannabinoids JWH-210 and JWH-122, along with their respective isomers, will be discussed in regard to identification problems and reporting issues. The Montana State Forensic Science Division uses gas chromatography with a mass selective detector for the identification of controlled substances. While it is difficult to differentiate positional isomers from their parent compounds using this technique, it is possible.

Site Exploitation of Looted Archaeological Sites on the Asymmetric Battlefield*Thomas J. Livoti, Science Applications International Corporation*

The archaeological record (artifacts, sites, and monuments) is being used to fund insurgent and terrorist organizations world-wide including organizations in American areas of operations. These sites are being looted in a systematic manner and has valuable information that can be exploited IOT neutralize the threat on the asymmetric battlefield. Looted antiquities fund insurgent/terrorist activities world-wide especially in areas under American military influence. Biometrics and forensic skill-sets employed in site exploitation operations of looted archaeological sites will provide valuable information for the purposes of intelligence collection in current (and future) AORs. Biometric and forensic skill-sets employed in the collection of data from looted archaeological sites can be used to mitigate and or neutralize the enemy's ability to fund insurgent/terrorist activities and identify key individuals who facilitate insurgent/terrorist funding operations. These individuals are usually connected to insurgent/terrorist organizations and organized crime smuggling syndicates.

CRIME SCENE

2012 IN REVIEW

In getting ready for 2013 I thought I would look over the newsletters that were published for 2012. I like to have an idea of where we've been and where we might want to go. I must say that I am pleased with the work done by me and the Publications Committee!

Sometimes I forget about the content, not the work, that goes into each publication. A lot was accomplished this year with a specific mention of our technical submissions. Since, this is a first look of our newsletter to our new members I thought that I would share a bit about what happened in 2012. Below are the covers for our 2012 newsletter and on the following 3 pages are the table of contents with a few comments by me!



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Tacoma Meeting*

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*Getting ready
for our
40th Anniversary!*

*An update from
Rhonda*

*Welcoming in
young
Kathy Kittell!*

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*More on citing
references from Jeff T.*

*Thanks Kris!
Congratulations on
having your paper
selected as best
independent submission
for 2012!*

*Our 1st technical
submission from our
NWAFS special
research topics!*

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"Samplings from an autopsy!"

Hoffa in concrete

*Wow, 3 technical submissions along with a trailer on the cover —
it's like Christmas in July!*

Summer 2012

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*I wonder if we'll need
this method in
Washington with
marihuana being legal?*



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A very sad loss.

"I remember when" I wrote this!

*Our 2nd technical
submission from our
NWAFS special
research topics.*

*It was about time
that I wrote this!*

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NWAFS NOTES

Idaho State Police 2012 Halloween Celebration Cartoon Character Theme



Back row, L->R Randy Parker, Aaron Koning (Shaggy), Tina Walthall (Linus), Rachel Cutler (PigPen), Rylene Nowlin (Gem, **member**), Tomasine Quinney (Rainbow Brite w/ attitude), Kurt Hinrichs (Mr. Incredible)

Middle row L->R Cyndi Cunnington (Leela from Futurama), Kerry Russell (Sally, **member**), Heather Campbell (Lucy, **member**), Natasha Wheatley (Charlie Brown), Stacy Guess (Coraline, **member**), Jane Davenport (Alvin)

Front row L->R Corinna Owsley (Schroeder, **member**), Jamie Femreite (Sailer Moon), Jodie Carney (Sailor Mercury), Loni Townsend (Hello Kitty pajama girl watching cartoons), Natalie Hernandez (Speedy Gonzalez), Gina Mann (Slowpoke Rodriguez).

Bill Marshall is Retiring!

Bill started with Idaho State Forensic Laboratory in 1972 and joined the NWAFS in 1973. He worked eight years in Idaho and then went to BioScience Laboratories in Orange County, California. In 1984 he came back to the north-west and started with the Washington State Patrol Crime Laboratory.

His involvement with the NWAFS includes being part of the preparation and hosting of meetings when held in Boise and later when in Seattle. Bill has presented papers at meetings, was part of a "Proficiency Testing" committee in the '70s and was the NWAFS representative to an organizing committee to an early (not initiated) national certifying organization for forensic professionals. Bill served as president of the organization in 2003 to 2004.

Bill says "Being part of the Northwest Association has been an important part of my career. The learning experiences from the workshops and meeting presentations are one part of it. But, the real experience is making friends with and learning from those trying to do the same type of job in neighboring states."



Bill lives on Whidbey Island where he has ten acres and a tractor. He plans on doing some serious gardening!



Ron Wojciechowski is Motoring Away into the Sunset!

Ron started out his forensic career in 1971 with the US Army Drug Abuse Lab in DaNang, Republic of Vietnam. He then moved to the 8th MP Group (Criminal Investigation Lab) in Long Binh, Republic of Vietnam. From 1972 to '79 he was stationed at the US Army Criminal Investigation Lab (Pacific), Camp Zama, Japan.

Ron decided to shed his boots and work for the Illinois Department of Law Enforcement Crime Lab in Maywood for three years. While in Illinois Ron had the opportunity to train under and work with Dr. McCrone and Skip Palenik at McCrone Research Institute. Ron would often go there at 5:30 in the morning so he would have time to visit with Dr. McCrone before he had to go to work.

Missing the Army he re-enlisted where he was with the US Army Chemical Corps with various assignments in Japan, Alabama, Washington, and Johnston Atoll. Ron retired as a major after 21 years of service.

In October, 1995 Ron joined the Washington State Patrol, Tacoma Crime Laboratory where he did a bit of controlled substances cases but was most used for his microscopy skills in the microanalysis section. Ron's expertise was useful for the Green River investigation but did work in buttons, carpet fibers, and parachute cord, locating the manufacturer and conclusively associating the known and questioned materials in all three of them. He also had the opportunity to identify the type of oatmeal that splashed onto a suspect in a homicide. Ron joined the NWAFS organization in 1996 and has taught workshops in black powder and polarizing microscopy.





Jerry Massetti:

chemist

Retiree

Help us congratulate Jerry as he retires after many long years with the Bureau of Forensic Services lab in Fresno and the California Criminalistics Institute in Sacramento. Always ready to pitch in, Jerry helped CCI move to Rancho Cordova before retiring. Now CCI's Open House celebration will be bittersweet. Join us.

Help us honor his long career over lunch:

When: Noon-2 p.m. Jan. 18, 2013

Where: CCI, 11181 Sun Center Drive, Rancho Cordova, California

How much: \$25 for a catered lunch with a little left over for a retirement gift

RSVP: By Jan. 10, 2013

Contact: Jennifer Madrid, 916-464-5586 or Jennifer.Madrid@doj.ca.gov

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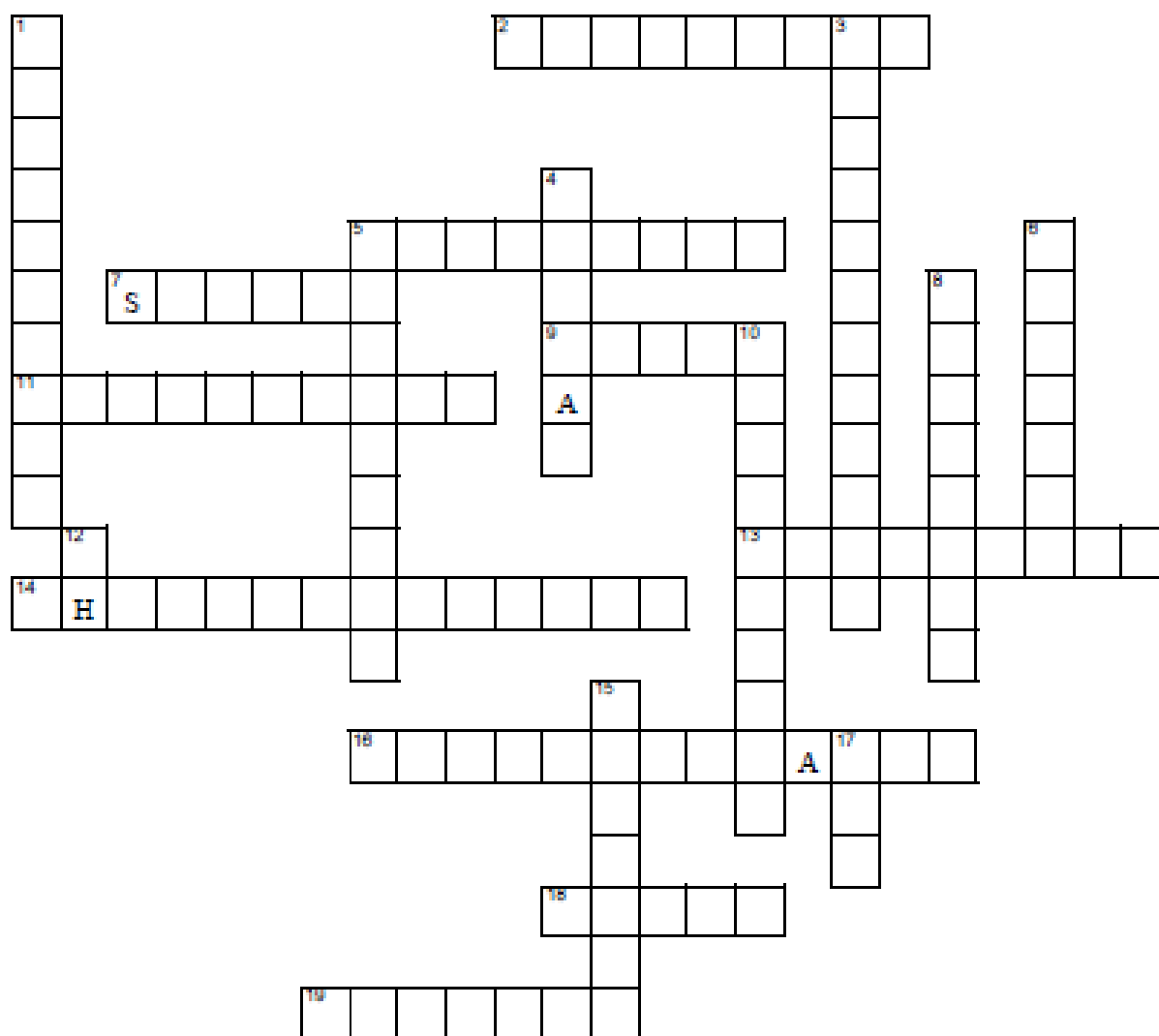
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Forensic Science Puzzler

by Jennifer Malone



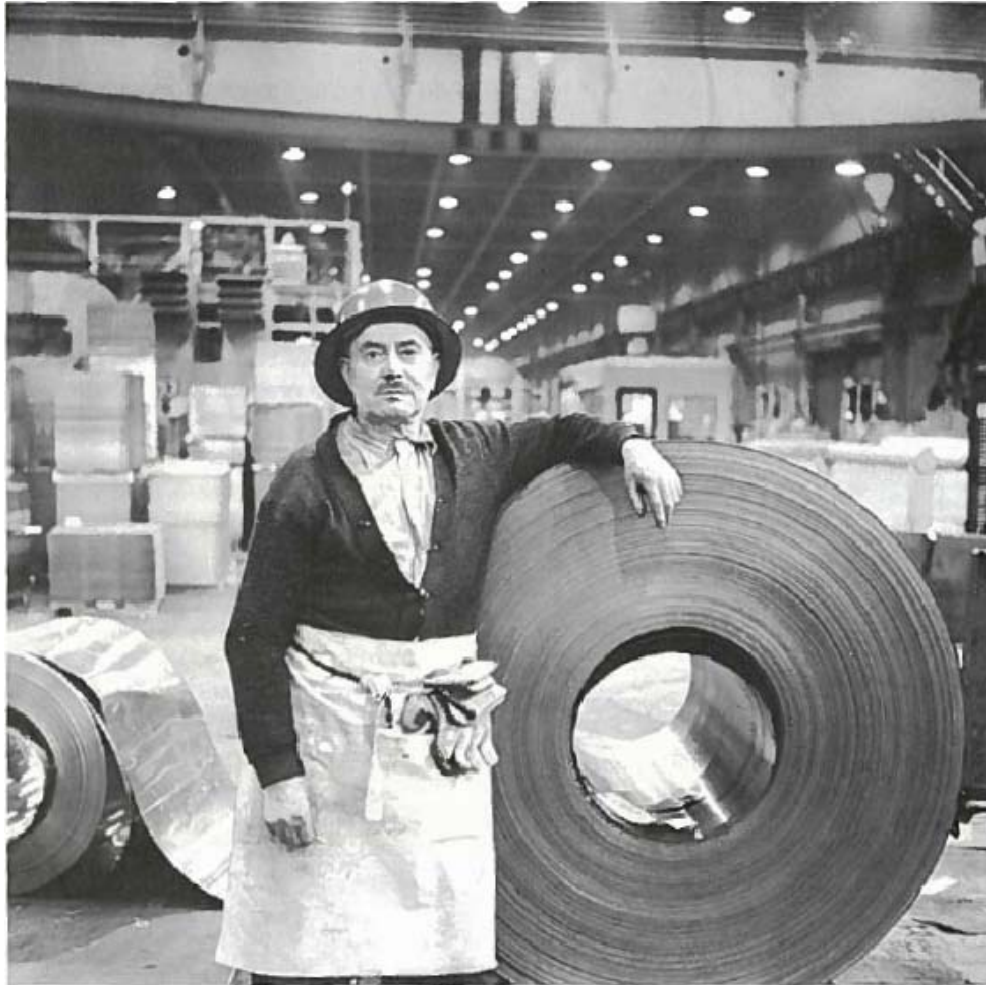
Across

2. The skewing of public expectation, benefits and understanding of forensic techniques.
5. When a firearm is discharged, the firing pin strikes the _____ of the cartridge.
7. The _____ current is the measure of electrons that interact with the sample.
9. The four basic categories of chemicals include _____, corrosive, flammable and reactive.
11. _____ evidence includes footprints, tire tracks and toolmarks.
13. It has been shown that the odor of _____ is detectable by cadaver dogs searching for clandestine burials.
14. Particles containing lead, antimony and barium are classified as these type of GSR particles.
16. How to calculate how far a body may float downstream before reaching the bottom.
18. Nerve substances, such as _____, are among the most toxic and fast acting chemical warfare agents in existence.
18. A single drop of sarin the size of a _____ can kill an adult.

Down

1. Offenses that are committed against individuals or groups of individuals with a criminal motive to intentionally harm the reputation of the victim or cause physical or mental harm to the victim directly or indirectly, using modern telecommunication networks such as Internet and mobile phones.
3. _____ chemical tests can be performed on gunpowder patterns resulting on target surfaces in order to determine how far away a shooter was from a target.
4. When you're casting footprints and tire tracks use _____ stone.
5. Before you begin processing a crime scene, secure the _____ and limit access as much as possible.
6. Use _____ lighting to identify dust footprints.
8. The three main elements of the primer mixture of a cartridge include lead, _____, and barium.
10. Evidence collected from a crime scene must be placed in proper _____.
12. The _____ of soil has the largest influence on bone preservation.
15. Removed from a cell phone to be used in a digital forensic investigation.
17. An example of a class four reactive substance is trinitrotoluene or _____.

CAPTION THIS!



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editor@nwafs.org

CAPTION THIS WINNER!

Congratulations to our last
newsletter's winner:

Jennifer McNair
Utah Bureau of Forensic Services

**"Good thing we had the intern try
the new safety shower first."**



Runner up goes to:

Steven Stone
Washington State Patrol Crime Laboratory

**"Detective Jones displays to his trainees
the incorrect way of retrieving a bullet from
the water tank."**

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