

NEAFS Newsletter

Volume 41, Issue 3

Fall 2016



NEAFS

1976 - 2016
40 Years

Don't Pass Bar

PASS LINE

NO CALL BETS

Don't Pass

Board of Directors 2016

President: Erica Nadeau

Massachusetts State Police Crime Lab
190 Carando Drive
Springfield, MA 01104
413-205-1847

president@neafs.org

President-Elect: Beth Saucier Goodspeed

Massachusetts State Police Crime Laboratory
124 Acton Street
Maynard, MA 01754
978-451-3504

presidentelect@neafs.org

Treasurer: Melissa Balogh

PO Box 10081
Trenton, NJ 08650

treasurer@neafs.org

Secretary: Tiffany Ribadeneyra

Nassau County Office of the Medical Examiner
2251 Hempstead Tpke. Bldg. R
East Meadow, NY 11554-1856

secretary@neafs.org

Director: Maria Tsocanos

PO Box 135
Hawthorne, NY 10532

director1@neafs.org

Director: Angela Vialotti

Connecticut Department of Emergency Services and Public
Protection
278 Colony Street
Meriden, CT 06451

director2@neafs.org

Director: Adam Hall

director3@neafs.org

Staff 2016

Past President: Larry Quarino

Cedar Crest College
100 College Drive
Allentown, PA 18104
610-606-4661

pastpresident@neafs.org

Executive Secretary: Matthew Marino

1000 River Rd, Apt 4F
Belmar, NJ 07719
845-797-8258

executivesecretary@neafs.org

Education Chairperson: John Drawec

Western New England University
Department of Physical & Biological Sciences
1215 Wilbraham Road
Springfield, MA 01119

education@neafs.org

Registration Chairperson: Jessica Best

Connecticut Department of Public Safety
Forensic Science Laboratory
278 Colony Street
Meriden, CT 06451

registration@neafs.org

Membership Chairperson: Sheauling Kastor

NEAFS
PO Box 581
Maynard, MA 01754
978-451-3804

membership@neafs.org

Merchandise Chairperson: Sandra Viens

Westchester County Toxicology Laboratory
10 Dana Rd
Valhalla, NY 10595

merchandise@neafs.org

Site Chairperson: Janine Kishbaugh

Cedar Crest College
100 College Drive
Allentown, PA 18104
610-606-4661

sitechair@neafs.org

Publications Chairperson: Brandi Clark

PO Box 135
Hawthorne, NY 10532

publications@neafs.org

Awards Chairperson: Elizabeth Duval
Massachusetts State Police Crime Laboratory

124 Acton Street
Maynard, MA 01754
978- 451-3472

awards@neafs.org

Ethics Chairperson: Andrea Belec

ethics@neafs.org

Corporate Liaison: Stephanie Minero

PO Box 248
Massapequa, NY 11758
707-70 NEAFS

exhibits@neafs.org

Membership Dues Contact: Alanna Laureano

PO Box 135
Hawthorne, NY 10532

dues@neafs.org

Certification Chairperson: Peter Diaczuk

Penn State University
Forensic Science Program
University Park, PA

certification@neafs.org

Webmaster: Keith A Mancini

PO Box 135
Hawthorne, NY 10532

webmaster@neafs.org



Time for a new LC-MS/MS? Make a smart investment with Shimadzu.

Maximize return on investment with Shimadzu triple quad systems.

Shimadzu offers the ultimate combination of speed, sensitivity, and uptime to maximize your productivity while minimizing costs.

Consolidate your old instruments and save time and money with Shimadzu.

Learn more about Shimadzu's LC-MS/MS.

Call (800) 477-1227 or visit us online at

www.ssi.shimadzu.com/LCMSMS

Order consumables and accessories on-line at <http://store.shimadzu.com>
Shimadzu Scientific Instruments Inc., 7102 Riverwood Dr., Columbia, MD 21046, USA

- Ultra-fast LC-MS/MS allows comprehensive panels significantly faster than competitors
- Superior sensitivity reduces the amount of internal standards used
- Consolidating old instruments onto a faster platform reduces service contract costs

Presidents Message

It is with a heavy heart that I begin this President's message with the sad news of George W. Chin's passing on September 22nd, 2016. He was a very dear friend to all, colleague to many, and a devoted NEAFS member. This is a surely a true loss to the Organization. I cannot put in to words what George has done for this Organization and the scientists and students who came to know him. I only knew George for a short period of time during my involvement with NEAFS compared to many of our members who have known him since the inception of the Organization. Despite these facts, what I do know and can say is that he dedicated himself to almost every NEAFS position, and served as President of the Organization in 1997. He was voted in as NEAFS member #472 in 1981 and would later be voted as a Life member. George took pride in the fact that he never missed a NEAFS meeting. Many say that with his passing, this was his way not to miss this year's meeting. We will remember his enthusiasm for the NEAFS Golf Outings, encouragement during the Student Forum, and stature at the doorway when accepting meal tickets at the Annual Meeting Luncheon. I will never forget the times I have shared with George. Keep your memories of him close to your hearts. With sympathy and love...

To view George's obituary visit <http://obits.nj.com/obituaries/trenton/obituary.aspx?pid=181645967>.

Visitation will be held at the Wah-Wing Sang Funeral Corp., 26 Mulberry St., New York, NY 10013 on Sunday, October 2, from 3 p.m. -7 p.m. A ceremony will be held at the funeral home on Monday, October 3, at 9 a.m., with burial to follow at the Cypress Hill Cemetery in Brooklyn NY.



Myself and George in Hyannis at last year's
NEAFS Meeting

On a lighter note, the NEAFS sponsored Forensic Relationship Statistic Training was a success! Thank you to those who passed on positive feedback, both on the instructor and the content. I'd also like to thank Kerry Beatty from Marshall University and the Vermont Forensic lab for suggesting and hosting the workshop. I often hear that there are many opportunities for DNA trainings, but with the NEAFS Visiting Scientist Program, each and every member is provided with the opportunity to suggest a training to be hosted right at your own Laboratory. So... if you have ideas for training or there is a workshop that you are unable to attend during the Annual Meeting, I encourage you to reach out to your Laboratory Directors and submit a request. You and your colleagues can only benefit from this opportunity. More details can be found on the NEAFS website at <http://www.neafs.org/index.php/2016-03-16-14-48-47/training>.

Our collaboration with the Green Mountain DNA Conference was also an accomplishment. The plan for next year is to expand registration from 80 to 120 attendees. The vision is to allow more access to the conference while still providing an intimate atmosphere for the exchange of ideas. I want to thank our Board Members and Staff who volunteered their time to not only take care of NEAFS business, but also assist with the behind the scenes tasks in making this meeting a success: Melissa Balogh –Treasurer, Stephanie Minero –Exhibits Chair, and Janine Kishbaugh –Site Chair.

We have a few individuals registered to sit for the ABC exam during the Annual Meeting. For those who pass the exam, remember, reimbursement is available through NEAFS! The Organization has also been looking in to giving a bit more back to their members. So we are crunching the numbers to see if it is feasible to offer additional reimbursement for re-certification fees for ABC, IAI and other Professional Organizations. If you have additional suggestions on ways NEAFS can give back to YOU, please pass them along.

Our next Board of Directors Meeting kicks off the 2016 Meeting on October 11th in Atlantic City. The NEAFS Board continues to make some finishing touches on the Bylaws revisions and I hope to have those out in an email blast prior to the meeting. These changes will be voted on by the membership during the Annual Business Meeting on October 14th, 2016. However, if you have suggestions for any additional changes or comments, please contact me at president@neafs.org.

With NEAFS celebrating its 40th Anniversary, I look back on the very first President's Message as others have in celebration of these milestones. The following is an excerpt from the First (March 1976) Newsletter:

Message from the President

The Northeastern Association of Forensic Scientists is finally a reality. After countless discussions over coffee whenever we would get together at a scientific meeting, after months of arduous work by the Ad Hoc Committee, after days of hectic preparation prior to the October meeting, NEAFS became a real, vibrant organization. Scientists from all over the Northeast came together in New York City to say: "Yes! We need this and we want this."

Like any other piece of reality, NEAFS can become dull and lifeless without a dynamic infusion of new ideas and new activities. You, the members, have charged the Executive Board with the responsibility of administering the Association in this our first year. Each Board Member feels his own personal commitment to carrying out that charge to the best of his ability. We each understand that our successes in this and the next few years will determine in part whether NEAFS will be a strong active organization responsive to the needs of its members.

That such an organization is needed requires no justification. That such an organization is wanted requires nothing more than noting the overwhelming attendance at the October Meeting. It is left for all of us, officers and members, to insure that the organization lives on. We solicit your assistance; we solicit your support.

Angelo Fatta

It is important to reflect on Past President Fatta's message. I can speak from experience and knowledge that our Board of Directors and Staff work tirelessly to ensure the Organization is run smoothly, gives back to its members, and that each Annual Meeting tops the one that came before it. But without the efforts of our members, support of our Laboratory Directors, and enthusiasm of young forensic scientists, NEAFS could become uninteresting and unexciting. I encourage you to attend this year's meeting, join the NEAFS Board or Staff, submit an abstract for next year's annual meeting in Pennsylvania, or just volunteer. I am confident you will not be disappointed.

Erica Nadeau

NEAFS 2016 President





DREAM BIGGER

AGILENT INTUVO GC SYSTEM

Dreaming of a better business outcome for your laboratory? Now Agilent can turn those dreams into reality.

With Intuvo, Agilent has re-invented GC—but you won't have to re-invent your methods. Ferrule-free connections, no-clip columns, a touch-screen interface, smart diagnostics... Intuvo gives you a whole new path to high-quality GC results.

Intelligent, intuitive, innovative.
Intuvo, from Agilent—the power to Dream Bigger.

Visit www.agilent.com/chem/intuvo



Introducing the Agilent Intuvo 9000 GC system

2016 Annual Meeting Update



Northeastern Association
of
Forensic Scientists

40 Years of NEAFS 1976-2016

Hello again fellow NEAFS members!!

I am so excited for the upcoming meeting and I hope you are all too!! The program staff and I have been working very hard at providing you with an excellent meeting. We hope you will enjoy what is in store for you and learn something new.

2016 marks the 40th anniversary of the NEAFS organization! This is the 42nd annual meeting because there was an organizational meeting in 1975. I am very proud to be a part of this historic anniversary!

Please sign up for a workshop if you haven't done so already. Take advantage of the low prices to fulfill your training requirement for the year - there are still spaces available. The Interviewing Workshop is not only for students but also for anyone looking to apply for a promotion. The educator's forum is open to everyone – not just educators and there are always excellent discussions that anyone can learn from. You would need to register as a Wednesday only attendee to attend this forum.

The scientific sessions and the general and plenary sessions will be sure to provide you new information, questions to ponder and discussions to be had. I know that you won't be disappointed.

Please be sure to attend the business luncheon on Thursday. We need all of you there in order to make quorum to hold our meeting and if you come, you will get lunch!! It is a great way to learn about the organization and get involved.

An alumni reception for UNH graduates is also scheduled for Thursday from 5:00 pm – 6:00 pm. I hope all the UNH alumni will stop by to catch up and to meet new friends.

I hope you all will stick around for the President's reception on Friday, October 14th! The night will begin at 5:30 pm with Trivia Night provided by Joe's Trivia starting at 6:00 pm. Joe's Trivia is based out of northern NJ and Joe himself will be making our evening awesome! Joe is a forensic science fan so he is very excited to be working our event. I even got quizzed when I was scheduling the event - good thing I answered the questions correctly! After Trivia night is over, we will dance the night away to Joe's music – something he doesn't typically do but said

he would help me out and would cover both events for me! This event is totally free for all attendees! You don't want to miss it!

The annual student forum will be held on Saturday. Gather some of your friends and enter to win the Kirk Cup! It is not too late to register! Contact Chris Chany at christopher.chany@dps.texas.gov or Elisse Coronado at elisse.coronado@pol.state.ma.us to register your school.

The Saturday scientific session had to be cancelled, unfortunately, since we did not have any overflow from Thursday. Sorry for any inconvenience in this scheduling change.

If you have reserved your room at the Harrah's resort, you are entitled to complimentary valet parking or self-parking for one car per room. You will receive your voucher upon check-in.

You will find it very easy to maneuver in Harrah's brand new conference center for our meeting. Once you exit the elevators of the Waterfront tower (where our room block is), take a right and you will see the entrance to the conference center. Our rooms are directly in front of the entrance of the conference center – 1st floor Wildwood. The registration desk will be to the right upon entering the conference center. There is a digital touch display board that can help direct you to where you want to go directly in front of the entrance. Your program booklet will also contain all of the necessary information. The hotel does not allow signage on each conference room door so please check these two places to help guide you. Each room does have a sign above the door such as "Wildwood 19" to indicate the room number. The registration staff can help you as well.

Thank you to everyone who has submitted an abstract for a poster or presentation! If you have submitted an abstract and have NOT been contacted, please email me at presidentelect@neafs.org.

The preliminary schedule of events has some minor changes – including the times – make sure to review this and keep in mind it is still subject to change.

Once again, I would like to thank my program staff for all of their hard work! This meeting would not be possible without all of you!! It has been a pleasure working with all of you and I can't wait to experience the fruits of our labors in just a few weeks time!!

If you see me at that meeting and have feedback to share, please pull me aside (see pic below!) and let me know! Your comments will only make things better at my meeting and for future meetings!!

Beth Saucier Goodspeed

2016 Program Chair





Industry Leader in Derivatizing Reagents and
SPE Technology

BENEFITS OF USING UCT'S DERIVATIZING REAGENTS

- Reagents are $\geq 98\%$ pure eliminating all color and background impurities.
- Reagents are packaged in airtight amber vials or sealed glass ampoules to facilitate handling and minimize waste.
- Reagents are manufactured with rigid specifications providing a highly reproducible finished product.
- Readily available in various sizes from 1 g ampoules to 1 g - 100 g bottles.



Mark your calendars!!!

2016 NEAFS ANNUAL MEETING

Harrah's Resort and Casino

ATLANTIC CITY, NJ

OCTOBER 12-15, 2016

Brand new conference center!



\$89/NIGHT + TAX

Please contact Beth Saucier Goodspeed, 2016 Program Chair,
at Acexkp@aol.com if you would like to volunteer or if you have any questions!

<https://www.caesars.com/harrahs-ac/hotel>



NORTHEASTERN ASSOCIATION OF FORENSIC SCIENTISTS

ANNUAL MEETING - October 12-15, 2016

See additional page for informational details. To qualify for **Early Registration**, a completed registration form and full payment must be postmarked no later than **September 12, 2016**. Regular Registration will be accepted from September 13, 2016 through October 2, 2016. After this date, ALL registrations will be processed On-Site.

Mail your completed form
and registration fee to:

NEAFS Registration
PO Box 4011
Meriden, CT 06450

registration@neafs.org

I. REGISTRATION INFORMATION (Please print or type all information)

First Name:

Last Name:

Member Number:

Organization/Agency:

Street:

City:

State:

Phone:

Email:

Zip Code:

Fax:

ABC Status:

☐ Diplomate

☐ Fellow

☐ Technical Specialist

☐ Affiliate

☐ Exam Committee

☐ Board Member

II. SCIENTIFIC SESSIONS - REGISTRATION FEES: October 13-15, 2016, Thursday - Saturday Sessions

*For student affiliate reduced registration, a copy of your FALL 2016 course schedule must be submitted; otherwise you will be charged the non-member rate. **If a scientific talk/poster is presented, the registration fee will be reimbursed following the meeting.** The Wednesday only option is for the Educator's Forum. Workshops are under a separate section.

	Early Registration	Regular Registration		
<u>Full Meeting Registration</u>	Postmarked by 09/12/16	Postmarked between 09/13/16 and 10/2/16		
Member / Active Applicant	\$130.00 - <input type="checkbox"/>	\$180.00 - <input type="checkbox"/>		
Non-Member	\$225.00 - <input type="checkbox"/>	\$275.00 - <input type="checkbox"/>		
Student Affiliate (Non-Member)*	\$135.00 - <input type="checkbox"/>	\$160.00 - <input type="checkbox"/>		
Spouse of Member / Non-Member	\$110.00 - <input type="checkbox"/>	\$135.00 - <input type="checkbox"/>		
<i>Spouse name:</i>				
<u>Daily Registration</u>	Wed. only (Educator's Forum)	Thursday Only	Friday Only	Saturday Only
Member / Active Applicant	\$45.00 - <input type="checkbox"/>	\$75.00 - <input type="checkbox"/>	\$75.00 - <input type="checkbox"/>	\$45.00 - <input type="checkbox"/>
Non-Member	\$75.00 - <input type="checkbox"/>	\$125.00 - <input type="checkbox"/>	\$125.00 - <input type="checkbox"/>	\$75.00 - <input type="checkbox"/>
Student Affiliate (Non-Member)	\$50.00 - <input type="checkbox"/>	\$80.00 - <input type="checkbox"/>	\$80.00 - <input type="checkbox"/>	\$50.00 - <input type="checkbox"/>
Spouse of Member / Non-Member	\$40.00 - <input type="checkbox"/>	\$70.00 - <input type="checkbox"/>	\$70.00 - <input type="checkbox"/>	\$40.00 - <input type="checkbox"/>
<i>Spouse name:</i>				

Please Note: On-Site Registration Surcharge \$20.00 - ☐

SECTION II TOTAL: \$

III. MEALS: Continental breakfasts are included with each day of registration. Luncheon tickets are included with **full meeting registration**, however, a selection is required below if you plan to attend. **Daily registration requires the purchase of a luncheon ticket.** **NOTE: If you have a dietary restriction, please indicate here:** _____

☐ Yes, I will be attending the luncheon on Thursday. (Held during the Annual Business Meeting).

Daily Registration Only Tickets: X \$20.00 =

☐ Yes, I will be attending the luncheon on Friday. Lunch selection: Beef ☐ Chicken ☐ Seafood ☐ Vegetarian ☐

Daily Registration Only Tickets: X \$55.00 =

☐ Yes, I will be attending the Friday evening Trivia night. ☐ Yes, I will be attending the President's Reception on Friday evening.

SECTION III TOTAL: \$

IV. WORKSHOP SESSION FEES

Workshops are filled on a first-come-first-served basis. Continental breakfast will be provided for the workshops. Workshops are subject to cancellation. Check www.neafs.org for updates on dates and times.

Full Day Workshops-Wednesday, October 12th

	<u>Member</u>	<u>Non-Member</u>
Trace Evidence Awareness	\$20 <input type="checkbox"/>	\$40 <input type="checkbox"/>
Microscopic Hair Screening	\$20 <input type="checkbox"/>	\$40 <input type="checkbox"/>
Shimadzu: Analytical Instrumentation - Forensic Science User Experiences*	\$0 <input type="checkbox"/>	\$0 <input type="checkbox"/>
Life Technologies: 2016 Future Trends in Forensic DNA Technology*	\$0 <input type="checkbox"/>	\$0 <input type="checkbox"/>
Agilent: Forensic Workflow Solutions in Chromatography and Mass Spectrometry*	\$0 <input type="checkbox"/>	\$0 <input type="checkbox"/>
*Lunch Included		

Half Day Workshops-Wednesday Morning, October 12th

Ethics and the Profession of Forensic Science	\$30 <input type="checkbox"/>	\$60 <input type="checkbox"/>
ABC Certification General Exam Preparation	\$30 <input type="checkbox"/>	\$60 <input type="checkbox"/>

Half Day Workshops-Wednesday Afternoon, October 12th

The Ultimate Interviewing Workshop	\$30 <input type="checkbox"/>	\$60 <input type="checkbox"/>
ABC Certification Biology Exam Preparation with Mock Exam	\$30 <input type="checkbox"/>	\$60 <input type="checkbox"/>

Half Day Workshops-Saturday Morning, October 15th

	<u>Member</u>	<u>Non-Member</u>
“Hot” Topics in Fire Debris Analysis	\$30 <input type="checkbox"/>	\$60 <input type="checkbox"/>

SECTION IV TOTAL: \$

PAYMENT: Check - ☐ Money Order - ☐ PAYPAL (October 2nd Deadline) - ☐

Check #

TOTAL AMOUNT ENCLOSED: (Sum of II, III and IV) \$

PLEASE check boxes of events you are considering. *This is for estimation purposes only and in no way binding.*

- | | |
|--|---|
| <input type="checkbox"/> ABC Exam (Saturday, October 15) | <input type="checkbox"/> Student Forum (Saturday, October 15) |
| <input type="checkbox"/> Welcome Reception/Poster Session (Thursday, October 13) | <input type="checkbox"/> Educator's Forum (Wednesday, October 12) |
| <input type="checkbox"/> University of New Haven Alumni Reception (Thursday, October 13) | <input type="checkbox"/> Continental Breakfast (Wednesday, October 12) |
| <input type="checkbox"/> Crim/Crime Scene Session (Thursday, October 13) | <input type="checkbox"/> Crim/Crime Scene Session (Saturday, October 15) |
| <input type="checkbox"/> Continental Breakfast (Thursday, October 13) | <input type="checkbox"/> DNA Session (Thursday, October 13) |
| <input type="checkbox"/> Continental Breakfast (Friday, October 14) | <input type="checkbox"/> Drug Session (Thursday, October 13) |
| <input type="checkbox"/> Continental Breakfast (Saturday, October 15) | <input type="checkbox"/> Toxicology Session (Thursday, October 13) |
| | <input type="checkbox"/> Trace/Arson and Explosives Session
(Thursday, October 13) |

The exhibitors and sponsors you meet at the NEAFS Annual Meeting play a vital role in keeping meeting costs reasonable while still enabling us to improve session and workshop quality. Simply put, without Corporate Sponsors the NEAFS Annual Meeting would be too cost prohibitive to convene. Every year we field requests for an Attendee List to allow exhibiting companies to forward marketing and new product information. NEAFS is one of the only organizations that does not automatically provide this information. We would like to offer this information to our valued (and valuable) sponsors this year. Please sign/print your name if you *refuse* to release this information. _____.

HELPFUL REGISTRATION TIPS

WWW.NEAFS.ORG

NEAFS REGISTRATION MAILING ADDRESS: NEAFS Registration, PO Box 4011 Meriden, CT 06450

WE MAY NEED TO CONTACT YOU, THEREFORE, PRINT LEGIBLY AND INCLUDE AN EMAIL ADDRESS OR TELEPHONE NUMBER.

ANNUAL MEETING / WORKSHOP REGISTRATION:

Early Registration: completed registration form and full payment postmarked no later than September 12, 2016. After this date, ALL registrations will be regular or on-site registrations. Registration is not accepted via email or fax, *unless* PayPal is utilized as form of payment. You will not receive confirmation of your registration status.

PAYPAL Payments: PAYMENT and COMPLETED registration form MUST BE SENT to: registration@neafs.org. A Paypal account is not necessary to use this feature. You can make a one-time credit card payment. The Paypal receipt is the only confirmation of payment that you will receive if paying electronically, and handwritten receipts will be generated for those paying by check or PO only.

WORKSHOPS: Workshop attendance requires an additional fee. Workshop(s) are ***not*** included with Annual Meeting Registration. Workshops are filled on a first-come-first-served basis. The Program Chair reserves the right to cancel any workshop if timely registrations are not received for the minimum number of participants. If a workshop is cancelled, notification and full refunds will be made. You may not register for more than one workshop if the workshops are held during the same time frame.

NEAFS MEMBERS PAYMENT INFORMATION (*in U.S. dollars*): NEAFS Tax ID # 51-0213291

Purchase Orders or Vouchers are ***NOT*** accepted unless accompanied by full payment. Accepted forms of payment, during Early Registration only, are via PayPal, check, or money order. Payment via Paypal may be made on the NEAFS website up until October 2nd, 2016. (<http://www.neafs.org/index.php/annual-meeting>)

CANCELLATION / REFUNDS: If you cancel your Workshop or Meeting Registration, your written, signed, and dated request must be mailed to the NEAFS Registration Chairperson at the mailing address provided above. If you cancel, your registration fees will be refunded, as follows: postmarked no later than September 12th, 2016, full refund, less \$20 processing fee; postmarked between September 13th - October 2nd, 2016, 50% refund; No refund requests will be honored if postmarked after October 2nd, 2016.

SPOUSE: Reduced rate registration is available to a spouse (lay person) only with a fully paid registered attendee. The reduced rate (spousal) registration permits attendance during scientific sessions, all breaks, and receptions.

CERTIFICATES: Certificates are generated by the workshop instructors for workshop completion only, not for attendance of the general sessions.



LUNCHEON: Tickets for attendance at the luncheons are included with FULL MEETING REGISTRATION ONLY. Please indicate on your registration form if you will or will not be attending so we may provide an accurate headcount to the hotel. If attending the luncheons, your registration packet will include luncheon tickets that must be presented to the Officials at the door for entry to the luncheon. If you have a food allergy, please inform the hotel staff directly. If needed, additional luncheon tickets may be purchased separately.

OTHER INFORMATION: All fees are the responsibility of the registrant. Registrations are non-transferable.

If you have any questions or concerns please email the NEAFS Registration Chairperson at: registration@neafs.org

THINGS TO DO AT HARRAH'S



RESTAURANTS

Martorano's
Dos Caminos Mexican
Oshi Sushi & Sake
The Steakhouse
Waterfront Buffet
Sammy D's Restaurant & Bar
Bill's Bar & Burger
Food Court
McCormick & Schmick's Seafood
Café Tazza

THINGS TO DO

The Pool After Dark nightclub
Viking Cooking School
Elizabeth Arden Red Door Spa
Eden Lounge – live entertainment
Several bars to enjoy cocktails!!
Fitness Center
Pool
Arcade games
Tons of stores for shopping
Casino
#BARWITHNONAME
– first craft cocktail bar in the region

THINGS TO DO IN AC



<http://www.unitedstatesournamentofdance.com/things-to-do-in-ac/>

Atlantic City Boardwalk
Atlantic City Cruises
Balic and Bellview Wineries
Central Pier Arcade and Speedway
Renault Winery Resort & Golf
Storybook Land

Atlantic City Aquarium
Atlantic City Trolley Tours
Cape May Whale Watcher Tour
Jersey Shore Children's Museum
Ripley's Believe It or Not Museum

and many, many more options!!



**Northeastern Association
of
Forensic Scientists**

2016 NEAFS Annual Meeting Preliminary Program

Atlantic City, NJ

(subject to change)

Tuesday, October 11th

3:00 p.m. – 6:30 p.m. Board of Directors Meeting

6:30 p.m. – 8:30p.m. Board of Directors Dinner

Wednesday, October 12th

7:00 a.m. – 5:00 p.m. Registration

7:00 a.m. – 8:30 a.m. Continental Breakfast

8:00 a.m. – 12:00 p.m. Educator's Forum

8:00 a.m. – 12:00 p.m. Workshops

Full Day Workshops

Trace Evidence Awareness

Microscopic Hair Screening

Shimadzu: Analytical Instrumentation - Forensic Science User Experiences*

Life Technologies: 2016 Future Trends in Forensic DNA Technology*

Agilent: Forensic Workflow Solutions in Chromatography and Mass Spectrometry*

*Lunch Included

Half Day Workshops- Morning

Ethics and the Profession of Forensic Science

ABC Certification General Exam Preparation

10:30a.m. – 10:45 a.m. Morning Break

12:00 p.m. – 1:00 p.m. Lunch

1:00 p.m. – 5:00 p.m. Workshops



Northeastern Association of Forensic Scientists

Half Day Workshops- Afternoon

The Ultimate Interviewing Workshop

ABC Certification Biology Exam Preparation with Mock Exam

1:00 p.m. – 4:00 p.m. Educator's Forum

2:30 p.m. – 2:45 p.m. Afternoon Break

8:00 p.m. – 11:00 p.m. Exhibitor Setup

7:00 p.m. – 9:30 p.m. Registration

Thursday, October 13th

7:00 a.m. – 5:00 p.m. Registration

7:00 a.m. – 8:30 a.m. Continental Breakfast

7:30 a.m. – 7:30 p.m. Exhibits

8:30 a.m. – 12:00 p.m. Scientific Sessions
Criminalistics/Crime Scene
Drug Chemistry
DNA
Trace/Arson and Explosives

10:15 a.m. – 10:30 a.m. Morning Break

12:00 p.m. – 1:30 p.m. Lunch & Business Meeting

1:30 p.m. – 5:00 p.m. Scientific Sessions
Criminalistics/Crime Scene
Toxicology
DNA

3:00 p.m. – 3:15 p.m. Afternoon Break

5:00 p.m. – 6:00 p.m. UNH Alumni Reception

5:30 p.m. – 7:00 p.m. Welcome Reception & Poster Session

8:00 p.m. – 10:00 p.m. Evening Session - M. William Phelps – “The Eastbound Strangler”



Northeastern Association of Forensic Scientists

Friday, October 14th

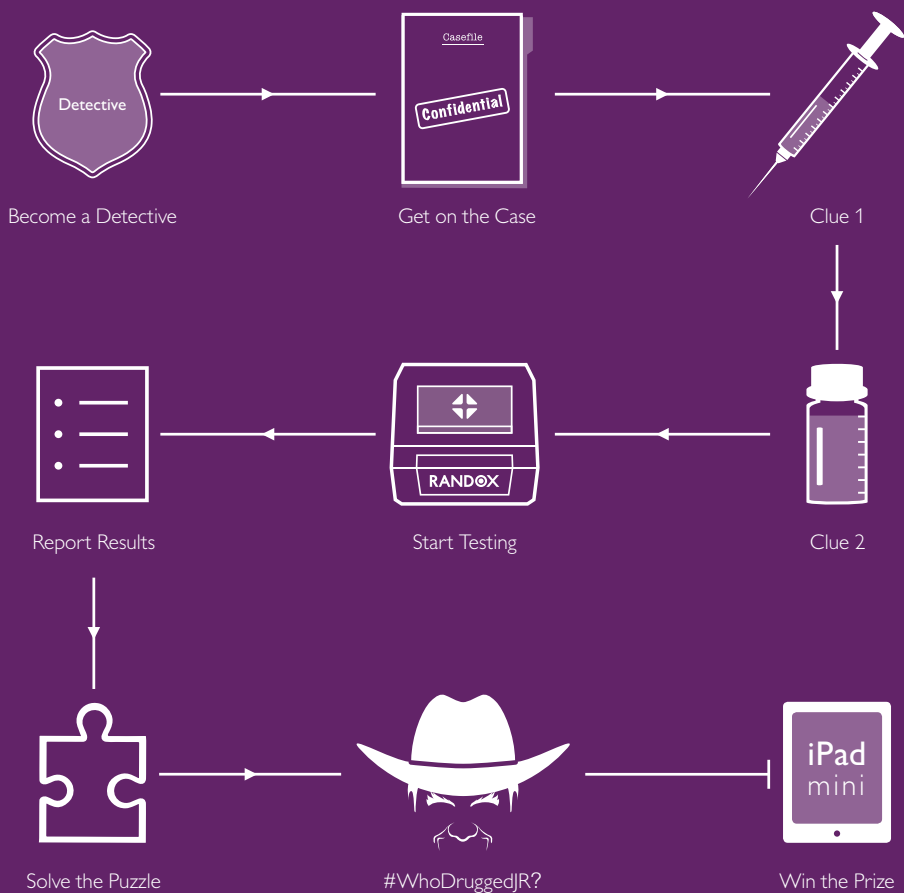
7:00 a.m. – 5:00 p.m.	Registration
7:00 a.m. – 8:30 a.m.	Breakfast
7:30 a.m. – 12:00 p.m.	Exhibits
8:00 a.m. – 12:00 p.m.	Plenary Session – “The Sexual Assault Kit Backlog – Real Life Examples”
10:15 a.m. – 10:30 a.m.	Morning Break
12:30 p.m. – 2:30 p.m.	Annual Luncheon – Keynote Speaker – Dr. Chris Rodriguez, Director of the NJ Office of Homeland Security and Preparedness
2:30 p.m. – 5:00 p.m.	General Session - Raymond Davis – “PTSD in Forensic Science”
3:45 p.m. – 4:00 p.m.	Afternoon Break
5:30 p.m. – 11:45 p.m.	President’s Reception
6:00 p.m.	Trivia Night Starts with Joe Trivia

Saturday, October 15th

7:30 a.m. – 9:00 a.m.	Registration
7:30 a.m. – 9:00 a.m.	Breakfast
8:30 a.m. – 9:00 a.m.	ABC Examination Registration
9:00 a.m. – 12:00 p.m.	ABC Examination
9:00 a.m. – 12:30 p.m.	Student Forum
	3 rd Annual NEAFS “Kirk Cup” College Bowl
9:00 a.m. – 12:00 p.m.	<u>Half Day Workshop</u> - “Hot” Topics in Fire Debris Analysis
10:30 a.m. – 10:45 a.m.	Morning Break

#WhoDruggedJR?

Visit Randox Toxicology at SOFT 2016 booth 419.
Solve the mystery of who & what drugged JR using our new
Evidence MultiSTAT for your chance to win an iPad mini.





Trivia Night hosted by Joe Trivia?a
Music and Dancing to follow!

President's Reception starts at 5:30 p.m.

Trivia starts at 6:00 p.m.

FREE to all attendees

Hope to see you there!!

Forensic Science Alumni Reception

*Thursday, October 13
5 - 6 p.m. | Atlantic City, N.J.*

CRIME SCENE



University of New Haven

University of New Haven Forensic Science Alumni Reception

Thursday, October 13 | 5 - 6 p.m.

Join us to discuss your careers, network and
socialize with fellow University of New Haven
forensic science graduates.

Harrah's Resort Atlantic City
777 Harrah's Boulevard
Atlantic City, N.J. 08401

(Location of the Northeastern Association of Forensic Scientists Annual Meeting)

Please register by October 10.

To learn more, visit
www.newhaven.edu/alumni/upcoming/.



University of New Haven

OFFICE OF ALUMNI RELATIONS

300 Boston Post Road
West Haven, CT 06516

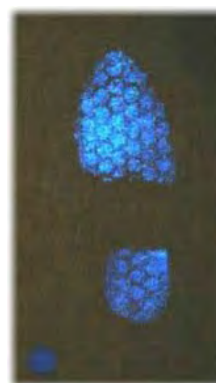
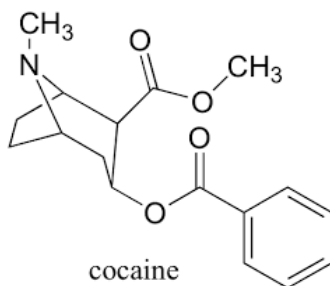


“Kirk Cup”

NEAFS College Bowl

2016 NEAFS Annual Meeting

Teams of four students will compete in a quiz type game. If there are only two college teams they will compete against each other in a GE College Bowl format. Both graduate and undergraduate teams are welcome and will compete for separate trophies. So get your team together, go to the bookstore and get a school pennant and enter. **Entry deadline October 5th.** Please email Chris or Elisse to enter.



October 15, 2016 10:30am
Immediately following the Student Forum

Christopher P Chany
Texas Dept. of Public Safety
512-424-2105
Christopher.chany@dps.texas.gov

Elisse Coronado
Mass. State Police Crime Lab
978-451-3524
Elisse.Coronado@pol.state.ma.us



**Northeastern Association
of
Forensic Scientists**

Probabilistic Genotyping, Mixture Interpretation Simplified

Bullet

The eDNA **Probabilistic Genotyping** tool has been designated **Bullet** for its speed, accuracy and ability to cut through the fog of uncertainty.



Fully documented and validated, with a fast track implementation team to assist in each step. Easily evaluate uncertainty even in differentially degraded mixtures.
Streamlines Mixture Interpretation and Reporting

The eDNA Consortium...

Is comprised of numerous Forensic Biology Laboratories united in the creation of tools relevant and dedicated to the Forensic Biology and HID industries.

Complex Kinship Calculations Made Simple

Brutus



- Intuitive and Flexible Pedigree Builder
- Missing Person / Reconstruction
- Symbolic Formulae
- Silent Alleles
- Population Substructure
- Familial Database Searches
- Gender Specific Mutation Rates
- Templatized Report Generation

Disaster Victim Identification Tools



We invite you to contact us for a free live demo

877-451-4363

www.eDNALIMS.com



Northeastern Association of Forensic Scientists

Membership Committee

Sheauling Kastor, *Chair*

Alanna Laureano, *Dues Contact*

Sherri Anderson

To: NEAFS Board of Directors
From: Sheauling Kastor, Membership Committee Chair
Date: July 22, 2016
Re: NEAFS membership update

NEW MEMBER APPLICANTS

NUMBER	STATUS	FULL NAME	AFFILIATION
1916	Associate	Kaitlyn E. Hess	Cedar Crest College
1917	Associate	Erica N. Johnson	Arcadia Univeristy
1918	Regular	Shelley M. Palmer	New York State Division of Criminal Justice Services
1919	Regular	Monique A. Oles	MA State Police Crime Laboratory-Post morten Tox
1920	Regular	Lindsay A. Catlin	New York City OCME
1921	Associate	Jeffery S. Dukette	Vermont Forensic Laboratory
1922	Regular	David J. Patlak	Vermont Forensic Laboratory
1923	Associate	Sarah R. Isasi	Nassau County Medical Examiner Division of Forensic Sciences
1924	Associate	Deadra A. Caleb	NYC Health and Hospitals
1925	Regular	Christina R. Sorensen	NYC OCME
1926	Regular	Brandy A. Mora	NYPD Police Laboratory
1927	Associate	Claire K. Muro	SUNY Research Foundation
1928	Regular	Laurie L. Murphy	Massachusetts State Police Crime Laboratory

REINSTATEMENTS AND UPGRADES

NUMBER	STATUS	FULL NAME	AFFILIATION
1663	Reinstatement to Regular	Janine R. Johnson	
966	Reinstatement to Regular	Lori A. Bunnell-Purdy	Suffolk Univeristy
886	Reinstatement to Regular	Joelyn M. Cornwell	NYSP, Mid-Hudson Satellite Crime Lab
1156	Reinstatement to Regular	Stewart M. Hung	PA State University
888	Reinstatement to Associate	Candace L. Salvatto-Gomez	NYPD Police Lab
367	Upgrade to Emeritus	Lawrence A. Fuller	
587	Upgrade to Emeritus	Paul A. Servizio	
1736	Upgrade to Regular	Tamara L. Wong	RI Dept. of Health-Forensic Science Lab
1800	Upgrade to Regular	Adrian Garcia Sega	Bay Path University
1797	Upgrade to Regular	Nicole K. Cronan	Massachusetts State Police Crime Lab
1720	Upgrade to Regular	Alanna L. Frederick	Massachusetts State Police Crime La

1690	Upgrade to Regular	Elisse R. Coronado	Massachusetts State Police Crime Lab
1825	Upgrade to Regular	Jolene J. Bierly	New York State Police
1830	Upgrade to Regular	Amanda M. Cadau	New York State Police
1878	Upgrade to Regular	Robert M. Almeida	RI Dept. of Health-Forensic Science Lab
1572	Upgrade to Regular	Helen Wong	Suffolk County Crime Laboratory

RESIGNATIONS

NUMBER	STATUS	FULL NAME	AFFILIATION
1044	Regular	Alan T. Robillard	Forensic Science Applications
1490	Associate	Andrew Reitnauer	NYPD Crime Laboratory

MEMBERS TO BE DROPPED (if payment is not received by Annual Meeting)

NUMBER	STATUS	FULL NAME	AFFILIATION
343	Regular	R. Michael Portzer	NY State Police Forensic Investigation Center
389	Regular	William V. Graziano	Westchester County Forensic Lab
494	Associate	Eric J. Young	ISP Forensic Lab
563	Regular	Joseph M. Galdi	Suffolk County Crime Laboratory
850	Regular	Christopher P. Montagna	Maine Health & Environmental Testing Lab
912	Regular	Guy M. Vallaro	University of Mass Memorial Health Center
1097	Regular	Edward G. Bernstine	
1240	Regular	Mark A. Henderson	Niagra County Sheriff's Office Forensic Lab
1291	Regular	John R. Leaver	New Jersey State Police
1327	Associate	Davis J. Saunders	John Jay College of Criminal Justice
1342	Regular	Matthew Benintendo	NYC Office of the Chief Medical Examiner
1356	Associate	Kelly Walsh	John Jay College of Criminal Justice
1403	Regular	Francis T. Harten	Long Island University
1409	Regular	Noelle J. Umback	NYC Office of the Chief Medical Examiner
1467	Regular	Samantha Chernoguz	Westchester County Forensic Lab
1529	Associate	David Leon	Jersey City Police Department
1532	Regular	Jay Caponera	NYSP Forensic Investigation Center
1561	Associate	Allison Sage	NYSP Forensic Investigation Center
1581	Regular	Alicia Duszak	NYSP Forensic Investigation Center
1621	Associate	Lesley Ann Huggins	John Jay College
1624	Associate	Alla Tashmukhamedova	John Jay College
1644	Associate	Kim A. Bonner	MSP Forensic and Technology Center
1651	Regular	Ada Kong	US Dept. of Justice/DEA
1664	Associate	Elizabeth Wille Phelps	Boston Police Department Crime Laboratory
1666	Regular	Bridget D. Verdino	Office of Forensic Sciences NJSP
1673	Regular	Stacy Czarnowski	Massachusetts State Police Crime Lab
1676	Regular	Kristen L. Smith	NYC OCME
1678	Regular	Lindsay E. Reinhold	NMS Labs
1687	Regular	Cheryl Strevell	NY State Police Forensic Investigation Center
1717	Associate	Dayna Currie	Boston University School of Medicine
1719	Regular	Kara Tremblay	Massachusetts State Police Crime Lab
1722	Associate	Emily Kinnaman	Boston University School of Medicine
1723	Regular	Leslie Watkins	BODE Technology
1749	Regular	Nicole Flaitz	Monroe County Crime Lab
1765	Regular	Amber Losavio	NYSP Crime Lab
1781	Regular	Frank Evans	Travelers Insurance
1794	Associate	Anthula Vadoros	University of New Haven
1814	Regular	Linda Manigault	Nassau County OCME

1821	Associate	Alex Thompson	Vermont Forensic Laboratory
1826	Regular	Eric Sorrentino	Suffolk County Crime Lab
1836	Associate	Lori-Ann Walters	Suffolk County Crime Lab
1841	Regular	Reena Patel	DOJ DEA
1844	Associate	Emily Myers	Cedar Crest College
1845	Associate	Heidi Campbell	Cedar Crest College
1848	Associate	Ashley Dart	Union County Prosecutor's Office – Forensic Lab
1850	Associate	Lori Ana Bromberg	New York State Police
1853	Associate	Ashley Chapman	NYPD Lab - Controlled Substances Unit
1854	Associate	Kara M. Galinsky	NYPD Lab - Controlled Substances Unit
1856	Associate	Jennifer R. Robisheaux	State of CT, Division of Scientific Services
1860	Regular	Kimberly A. Michalik	New Jersey State Police OFS
1863	Regular	Daniel J. Harrington	Suffolk County Crime Laboratory
1880	Associate	Aisha G. Eckroth	Cedar Crest College
1889	Regular	Elana J. Quinones-Conant	Cedar Crest College
1903	Associate	Xochitl A. Esquivel-Gomez	Bay Path University
1905	Associate	Maria M. Hill	Bay Path University
1910	Associate	Alexaundrea J. Serwecki	Bay Path University
1911	Associate	Patricia DeOliveira-Squitiero	Bay Path University

TOTALS:

Members in 2015-2016

Regular: 360

Associate: 156

Emeritus: 36

Life: 9

Total 561

New Members: 13

Upgrades: 11

Reinstatements: 5

Resignations: 2

Deceased: 1

To be Dropped: 57*

The above report is respectfully submitted.

*To be Dropped updated 09/26/16

Fast Investigation

Real-time Analysis - High Throughput Imaging

Hair, fibers, ink, tapes

Powders, explosives, residues

Accident reconstruction

Trace evidence

Plant materials, drugs

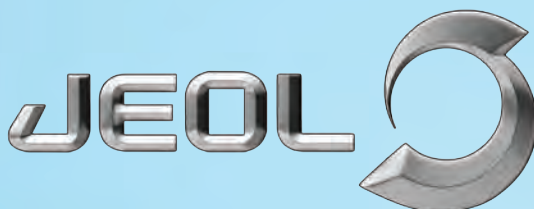
Gunshot residue

Versatile High Resolution Scanning Electron Microscopes
Direct Analysis High Resolution Mass Spectrometer

Preserve the evidence

- ▶ Large sample chamber for SEM
- ▶ Direct analysis with Mass Spec

www.jeolusa.com/forensics



Green ountain DNA Conference

Hosted by:



The GM DNA Steering Committee sincerely thanks our Platinum and Gold sponsors for their support of the 2016 Conference. The Conference was a huge success which was only possible from the financial support provided by our sponsors. We are truly indebted to them and ask the NEAFS membership to review what they provide to the forensic community by visiting their websites.

Platinum Sponsors:



Gold Sponsors



Why do we need an SDO if we have the OSAC?

Brad Wing

Secretariat, Academy Standards Board

SDO is a term meaning *Standards Developing Organization*. OSAC stands for the Organization of Scientific Area Committees. The AAFS has established an SDO (called the AAFS Standards Board, abbreviated ASB) that works closely with OSAC to develop voluntary consensus standards, technical reports and best practice recommendations.

OSAC is administered by the National Institute of Standards and Technology (NIST). OSAC publishes the *Registry of Approved Standards* and the *Registry of Approved Guidelines* for the forensics community. Each document listed in the registries is required to be based upon sound scientific principles and to have been developed in a *consensus-based* processes. OSAC has 23 subcommittees, each focused upon a specific area of forensics. These subcommittees are responsible for determining which documents to submit to the Registries, but also to identify gaps and needs in standards and related documents. Another function of the subcommittees is to identify research needs and publicize these needs to Federal agencies.

The term *voluntary consensus standards* is the key as to why the ASB was created, and why OSAC needs the cooperation and participation of the ASB and other SDOs. In 1995, Congress passed a law called the National Technology Transfer and Advancement Act (NTTAA). This law states “All federal agencies must use voluntary consensus standards in lieu of government-unique standards in their procurement and regulatory activities, except where inconsistent with law or otherwise impractical.” This also has a trickle-down effect, since Federal grants involving standards are also subject to NTTAA. The important point for this discussion is that OSAC was not created to generate voluntary consensus standards. The NTTAA and the policy document explaining it (*available at <http://www.nist.gov/standardsgov/omb119.cfm#3>*) define the processes required to develop a voluntary consensus standard:

- i *“Openness*
- ii *Balance of interest*
- iii *Due process*
- iv *An appeals process*
- v *Consensus, which is defined as general agreement, but not necessarily unanimity and includes a process for attempting to resolve objections by interested parties...”*

The AAFS Academy Standards Board (ASB) meets these criteria. In fact, it has been accredited by the American National Standards Institute (ANSI), which requires adherence to the principles defined above. OSAC is not an SDO and will not become an SDO. While an OSAC subcommittee may identify a gap in existing standards for a field, and even develop a draft document for submittal to an SDO, it is the role of the SDO to ensure that the procedures are properly followed so that the requirements of the NTTAA for *voluntary consensus standards* are met.

The ASB accomplishes this by forming consensus bodies (CBs). Currently there are 13 such CBs (Anthropology, Bloodstain Pattern Analysis, Disaster Victim Identification, DNA, Dogs and Sensors,

Firearms and Toolmarks, Footwear and Tiretracks, Forensic Document Examination, Friction Ridge, Medicolegal Death Investigation, Patterned Injury, Toxicology, and Wildlife Forensics). With the exception of Patterned Injury, these exactly correspond to OSAC subcommittees. The CBs are made up of individuals from different backgrounds, which are characterized by ‘interest categories,’ of which we have eight: academia, consumer groups, general interest (typically lawyers and judges), laboratories and testing facilities, producers, subject matter experts, user/government and user/industry. This helps to ensure balance of interest – one of the key requirements for an SDO.

Consensus bodies (which develop the standards) hold meetings open to all interested parties and are comprised of experts from the eight interest categories listed above. There is a defined process to develop the documents – ensuring due process, including an appeals procedure. Each document is put out for public review, so that any interested party—even if they do not participate on the consensus body—may comment on the document. The consensus body is responsible for adjudicating any issues that may arise during the review. Consensus must be reached among the members of the consensus body for a document to be adopted. In addition, the Board of the ASB must approve the document prior to submission to ANSI (which allows a standard to become an American National Standard).

This is all well and good, but it still doesn’t answer the question of why the AAFS now has an SDO.

When OSAC was established, it became apparent that some fields in forensic science had existing relationships with SDOs – such as in fire science and gunshot residue. Others may have had professional organizations (such as the American Board of Forensic Odontology) which had issued guidance documents. In some fields there were Scientific Working Groups (SWG), such as in DNA. However, the standards and best practice guidelines produced by professional organizations and SWGs do not meet the requirements of the NTTAA for being voluntary consensus standards. OSAC approached several professional groups, including AAFS to see if any were interested and capable of establishing an SDO to generate voluntary consensus standards.

The AAFS accepted the challenge and created the ASB. The ASB CBs have close relationships with their corresponding OSAC subcommittees but the CBs may also generate documents on their own. Some documents may be proposed directly by professional organizations, or even by individuals not associated with OSAC.

The CBs need assistance in determining the scientific underpinnings that must be included in ASB standards and best practice recommendations. CBs will typically reach out to OSAC subcommittees to provide the necessary scientific and operational foundation for the requirements in a standard or best practice recommendation.

Once a standard or best practice recommendation is finalized by the ASB, the corresponding OSAC subcommittee may refer it for inclusion in the appropriate Registry – thus completing the loop of interrelationship of OSAC subcommittees and ASB CBs.

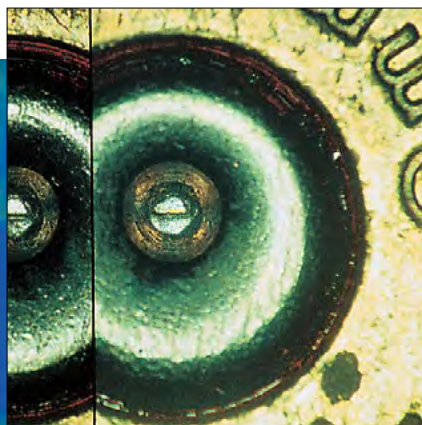
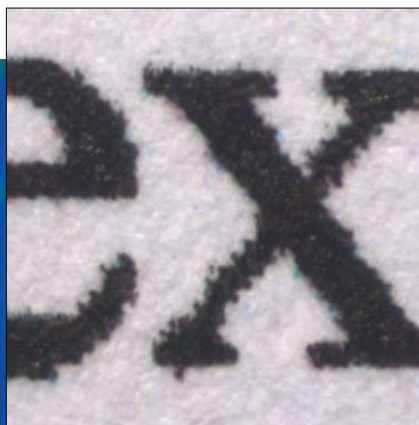
The ASB Consensus Bodies are open to anyone with an interest in forensic science. Updates as well as applications for a Consensus Body membership can be found at <http://asb.aafs.org/>.

From Eye to Insight



TRADE IN AND TRADE UP FOR CONFIDENCE IN YOUR CASEWORK

Save \$10,000 When You Trade In **Any** Comparison Microscope System*



For more than 100 years, Leica Microsystems has offered you confidence in your casework through premium solutions for forensic imaging, firearms examination and trace evidence analysis.

Our forensic comparison systems feature telecentric optics to ensure the confident measurement, observation accuracy and magnification fidelity that optical zoom based systems simply cannot provide - giving you **reproducible quality and accuracy for results you can stand behind.**

**Save \$10,000 when you trade in ANY
comparison microscope system in ANY condition!***

Click or copy the link below for more information.

www.leica-microsystems.com/forensic-trade

Progress Report: Carol DeForest Research Grant Award

Identification and Classification of Forensic Botanical Evidence using Direct Analysis in Real Time Mass Spectrometry (DART-MS): Development of Chemotaxonomic Profiling by Mass Spectral Analysis

Ashton D. Lesiak

Plant-based drugs of abuse account for nearly 10% of the new psychoactive substances on the global market. The United Nations Office on Drugs and Crime has identified a list of 20 plants in particular that are of concern to law enforcement and health officials. Efforts to regulate the use of these substances has been hampered by the challenge of identifying them, as it can be difficult to distinguish them from innocuous food, nutraceutical or horticultural products. The application of conventional methods of analysis for their detection and identification presents unique challenges to crime labs. This is because the complexity of the plant matrix requires time-consuming and resource intensive sample preparation steps that are impractical for crime labs to conduct routinely. Here, direct analysis in real time-high resolution mass spectrometry (DART-HRMS) is shown as a highly efficient approach that can be adopted by crime labs for the rapid characterization of plants of abuse. Various unscheduled mind-altering plant products were tested directly by DART-HRMS without the need for lengthy sample preparation steps. The psychoactive substances contained within them were easily identified from high resolution data that was generated under soft ionization conditions, and tentative structural assignments were confirmed through the use of in-source collision-induced dissociation (CID) and comparison of the results with those of CID experiments conducted using authentic standards. Moreover, the complete mass spectral profile, which includes any constituent psychoactive components, provides a diagnostic chemical signature of the plant, which enables species identification and differentiation through the application of statistical analysis methods.

In ongoing work towards the characterization of plant-based drugs of abuse, a variety of currently unscheduled plant materials were purchased, including plants reported to contain the Schedule I substance dimethyltryptamine (i.e. *Psychotria viridis*, *Diplopterys cabrerana* and *Mimosa hostilis*), San Pedro cactus (reported to contain the scheduled substance mescaline), and yohimbe and black cohosh, which are used for their reported medicinal properties, among others. A DART-HRMS analysis method suitable for the analysis of a broad range of substances was developed. Mass spectra of plant materials were acquired using a DART-SVP ion source (IonSense, Saugus, MA) coupled to a JEOL AccuTOF time-of-flight mass spectrometer in positive-ion mode. PEG 600 was used for accurate mass calibration. Spectra were obtained over the mass range of m/z 60-800 under soft ionization conditions (orifice 1 voltage, 20 V; orifice 2 voltage, 5 V; and RF ion guide voltage 600 V). For confirmation of psychoactive biomarkers, in-source CID was performed on plant material and standards by the application of "function switching", which enabled the simultaneous acquisition of both low orifice voltage and high orifice voltage mass spectra. Thus, in these experiments, the orifice 1 voltage was varied from 20 V, 30 V, 60 V and 90V, with the extent of fragmentation increasing with increasing voltage.

Soft ionization spectra of various plant materials are shown in Figures 1 and 2. In Figure 1, spectra of four plants commonly abused in Ayahuasca, a well-known psychoactive beverage, are shown. DMT is readily detectable at nominal m/z 189 in *P. viridis*, *D. cabrerana*, and *M. hostilis*, and

harmine at nominal m/z 213 is detected in the *B. caapi* shredded vine. Figure 2 shows soft ionization DART-HRMS spectra of San Pedro cactus, black cohosh, yohimbe bark and mullein leaves. Mescaline was identified in the cactus (nominal m/z 212), while natural products known to be present in the other plant materials were tentatively identified. In-source CID studies confirmed the presence of DMT, harmine, and mescaline, in addition to other relevant and psychoactive compounds. Statistical analysis processing is being explored as a means to characterize the botanical signatures and enable rapid species-level identification. Ayahuasca brews made of various combinations of DMT- and harmala alkaloid-containing plants have also been analyzed to determine if the application of statistical analysis methods would enable the determination of the individual psychoactive plants in the mixture, a capability that is not currently possible using conventional methods. Some of the progress that has been made to date was included in my Ph.D. thesis (Development of DART-HRMS and Statistical Analysis Tools for the Identification and Classification of Psychoactive Plant Drugs) as well as in the journal article ["Application of ambient ionization high resolution mass spectrometry to determination of the botanical provenance of the constituents of psychoactive drug mixtures"](#) (Lesiak, A.D. and Musah, R.M., *Forensic Science International*, **266** (2016), 271-280).

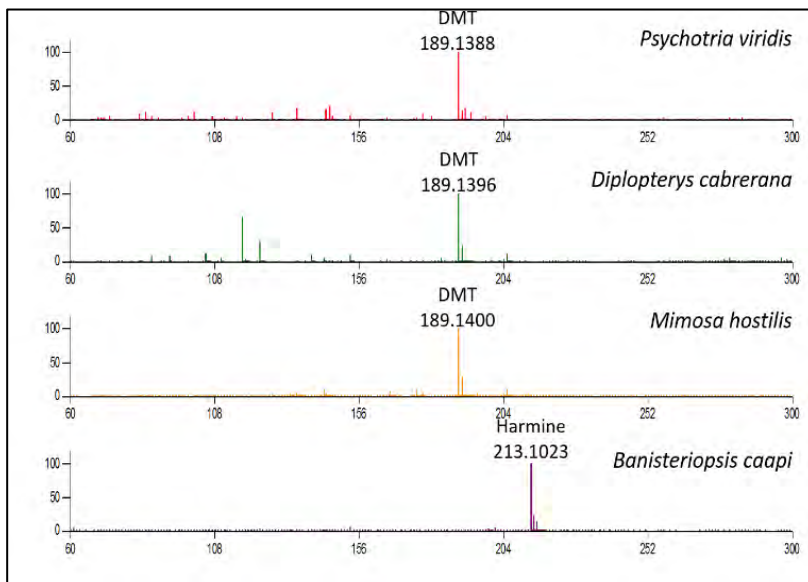


Figure 1: Soft ionization DART-HRMS spectra of *Psychotria viridis*, *Diplopterys cabrerana*, *Mimosa hostilis* and *Banisteriopsis caapi*.

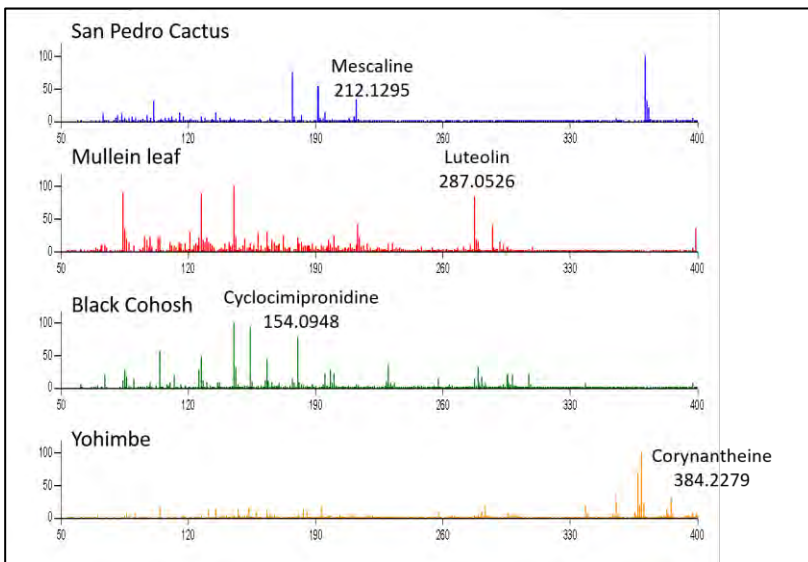


Figure 2: Soft ionization DART-HRMS spectra of San Pedro cactus, mullein leaf, black cohosh and yohimbe.

I look forward to presenting the most recent results and conclusions at the 2016 NEAFS Annual Meeting in Atlantic City.

Ayahuasca is a hallucinogenic beverage originating in South America. Its psychoactive effects are derived from dimethyltryptamine (DMT)-containing botanical material. However, when consumed orally, DMT is not psychoactive because it is broken down in the body to non-psychoactive components by monamine oxidase enzymes. Therefore, in order to exert its psychoactive effects, it must be combined with a monamine oxidase inhibitor (MAOI). For this reason, Ayahuasca beverages also include a harmala alkaloid-containing plant, with the harmala alkaloids serving as MAOIs. The brewing process selectively extracts the DMT and harmala alkaloids from the plant material and as such, it is often difficult to determine what plants were used to make the Ayahuasca. Furthermore, the aqueous nature of the brew makes it necessary to perform complex extraction steps prior to analysis by traditional methods such as GC-MS. Here, direct analysis in real time-high resolution mass spectrometry (DART-HRMS) was used to investigate the presence of psychoactive compounds in various plant materials as well as Ayahuasca concoctions. We also investigated whether the application of statistical analysis methods to the mass spectral data could facilitate the determination of the originating botanical species used in the brews. Towards that end, five different plant materials, namely *Psychotria viridis* (Chacruna), *Mimosa hostilis* (Jurema), *Diplopterys cabrerana* (Chaliponga), *Banisteriopsis caapi* (Caapi), and *Peganum harmala* (Syrian rue) were analyzed. DMT was confirmed to be present in *D. cabrerana*, *P. viridis*, and *M. hostilis* through the use of in-source collision-induced dissociation (CID) experiments. This was done by varying the orifice 1 voltage from 20 V, 30 V, 60 V and 90V, with the extent of fragmentation increasing with increasing voltage. The results are shown in Figure 1. Harmine and harmaline were determined to be present in *B. caapi* and *P. harmala* and vasicine was identified in the *P. harmala* seeds (Figure 2).

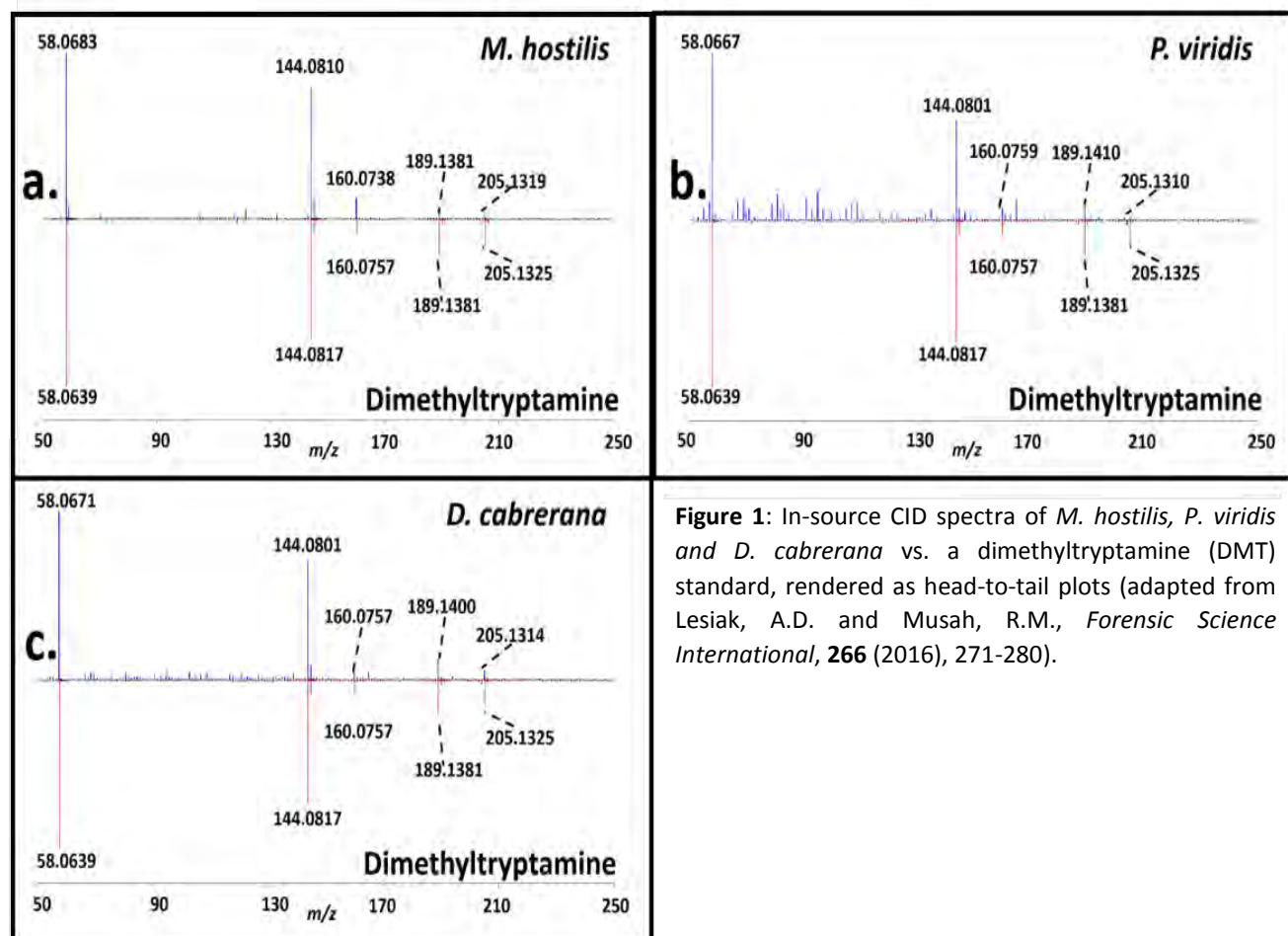


Figure 1: In-source CID spectra of *M. hostilis*, *P. viridis* and *D. cabrerana* vs. a dimethyltryptamine (DMT) standard, rendered as head-to-tail plots (adapted from Lesiak, A.D. and Musah, R.M., *Forensic Science International*, **266** (2016), 271-280).

These psychoactive plant materials were used to create six different Ayahuasca brews, following published protocols. Figure 3 shows the soft-ionization spectra of each of the six concoctions with images of the brews shown as inset panels. In each brew, DMT as well as harmaline and harmine were identified at unit masses m/z 189, 213 and 215 respectively. Due to the extractive nature of the brewing process, we investigated whether the botanical constituents used in each of the brews could be differentiated from one another using statistical analysis tools. Principal component analysis (PCA) was applied to the DART-HRMS-derived data and the resulting scores plot is shown in Figure 4. The PCA plot indicates that each of the brew types clusters independently from the others. What is of high interest is that brews containing *B. caapi* are clearly delineated along principal component 1 from those containing *P. harmala* as the harmala contributing plant. Similarly, the DMT-containing plant used in the brew can be identified by the variance along principal component 2. Brews containing *M. hostilis* have low PC2 values while those made with *P. viridis* have high PC2 values. Brews with median PC2 values were made with *D. cabrerana*. The leave-one-out cross validation for this classification system was 98.88%, indicating correct classification of all brews.

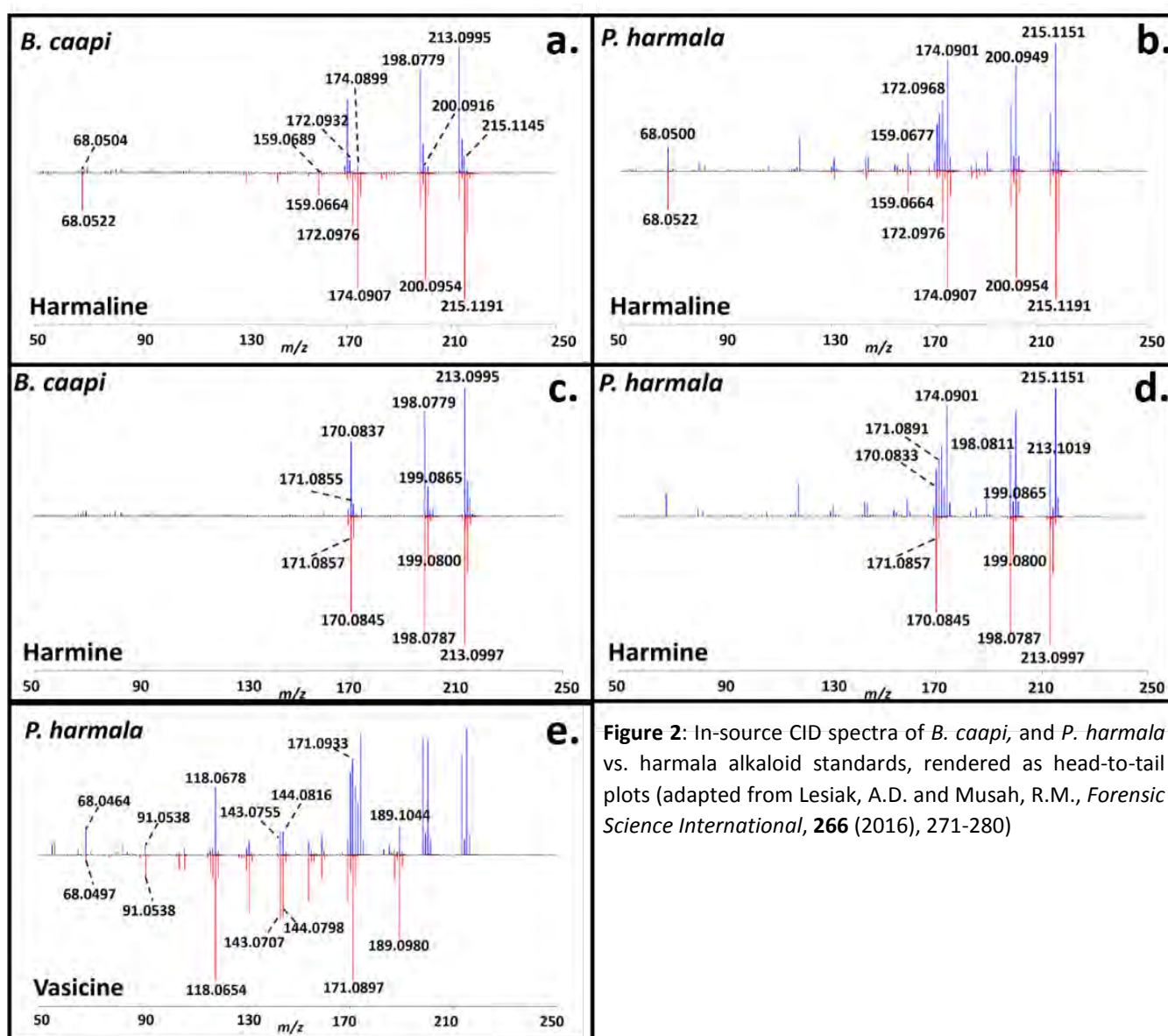


Figure 2: In-source CID spectra of *B. caapi*, and *P. harmala* vs. harmala alkaloid standards, rendered as head-to-tail plots (adapted from Lesiak, A.D. and Musah, R.M., *Forensic Science International*, **266** (2016), 271-280)

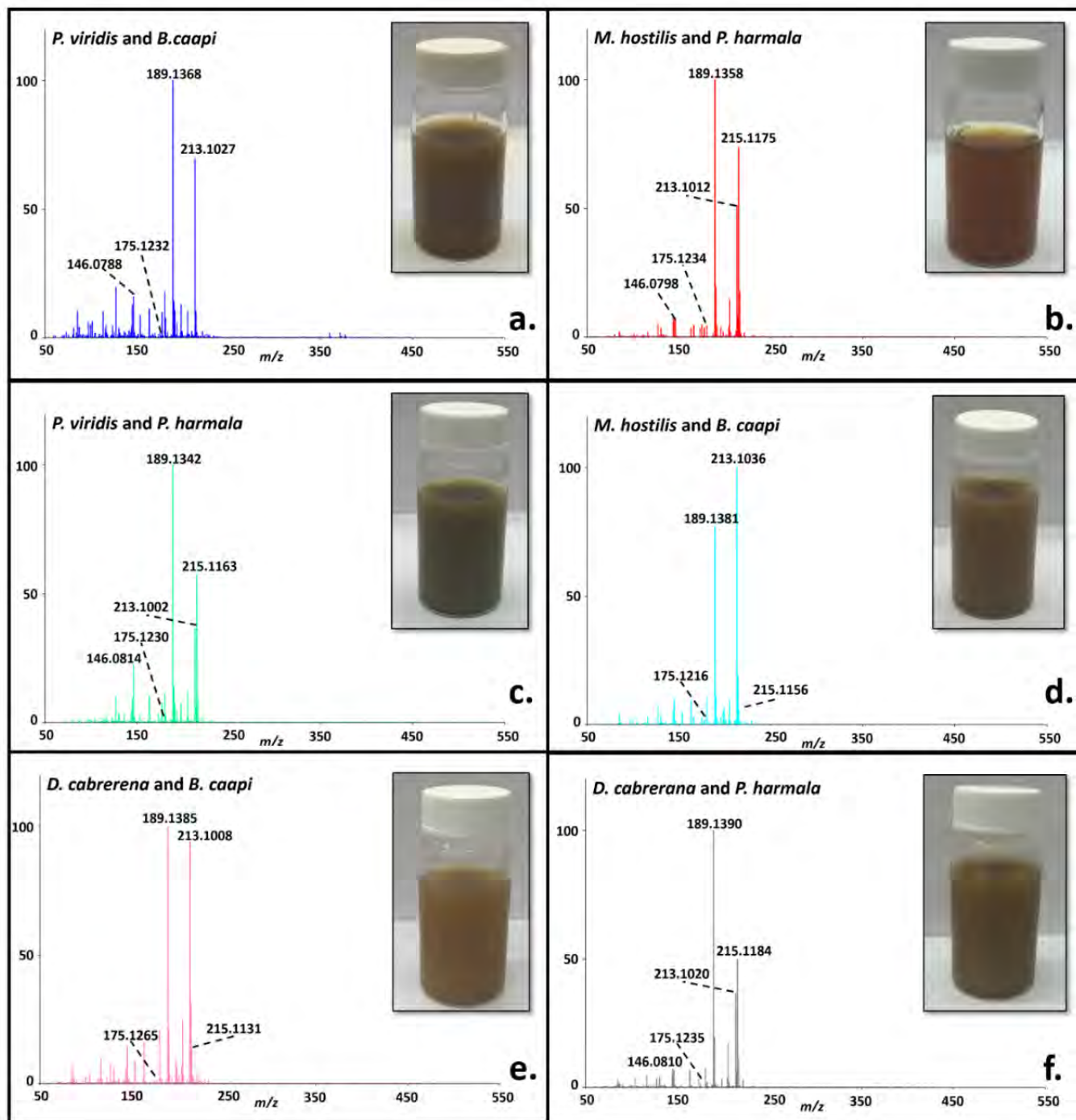


Figure 3: DART-HRMS soft ionization spectra of Ayahuasca brews. The inset in each Panel is an image of the brew (adapted from Lesiak, A.D. and Musah, R.M., *Forensic Science International*, **266** (2016), 271-280).

The results were recently published in the journal article "[Application of ambient ionization high resolution mass spectrometry to determination of the botanical provenance of the constituents of psychoactive drug mixtures](#)" (Lesiak, A.D. and Musah, R.M., *Forensic Science International*, **266** (2016), 271-280) as well as in my doctoral dissertation "Development of Direct Analysis in Real Time-High Resolution Mass Spectrometry (DART-HRMS) and Statistical Analysis Tools for the Identification and Classification of Psychoactive Plant Drugs."

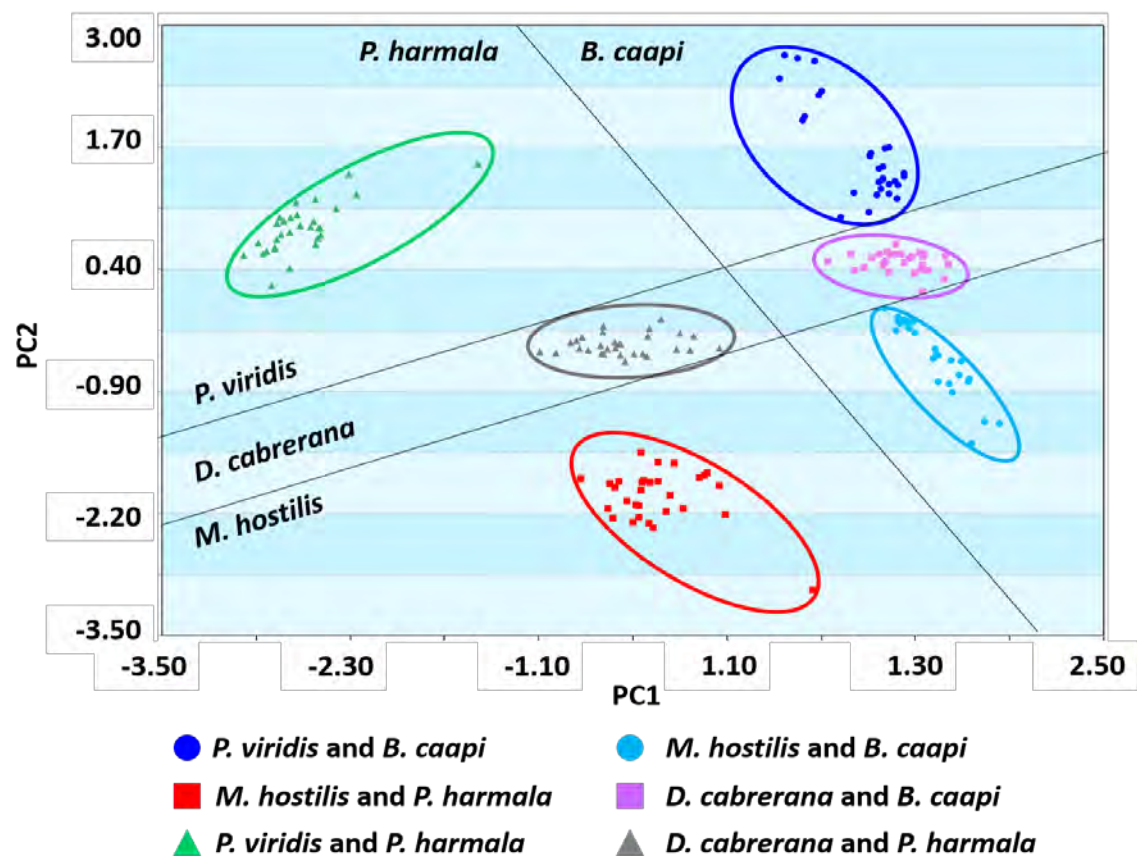


Figure 4. Principal component analysis (PCA) plot of six Ayahuasca brews constructed using DART-HRMS derived data (Lesiak, A.D. and Musah, R.M., *Forensic Science International*, **266** (2016), 271-280).

NEAFS needs your HELP to fill in the blanks!

Are you an award winner or know someone who was? If so, please contact Elizabeth Duval at awards@neafs.org with any additional information.

NEAFS Awards Winners

2015

George W. Neighbor, Jr. Memorial Scholarship Graduate - Kaitlyn Hess
George W. Neighbor Jr. Memorial Scholarship Graduate – Erica Johnson
Carol De Forest Research Grant – Ashton Lesiak
Meritorious Service Award – David San Pietro

2014

George W. Neighbor, Jr. Memorial Scholarship Undergraduate - Angelica Graver
George W. Neighbor Jr. Memorial Scholarship Graduate - Heidi Campbell
Carol De Forest Research Grant - Emily Meyers
Meritorious Service Award – Pete Diaczuk

2013

George W. Neighbor, Jr. Memorial Scholarship Undergraduate - Emily Fuller
George W. Neighbor, Jr. Memorial Scholarship Graduate - Ashton Lesiak
Carol De Forest Research Grant - Rachel Bower
Meritorious Service Award – Vincent Desiderio

2012

George W. Neighbor, Jr. Memorial Scholarship Undergraduate – Kaitlin Hafer
George W. Neighbor, Jr. Memorial Scholarship Graduate - Daniel Hall
1st Carol De Forest Research Grant – Joseph Iacona
1st Meritorious Service Award – Ted Schwartz

2011

George W. Neighbor, Jr. Memorial Scholarship Undergraduate – Elizabeth Sunderhaus
George W. Neighbor, Jr. Memorial Scholarship Graduate - Kristen Johnson

2010

George W. Neighbor, Jr. Memorial Scholarship Undergraduate – Jennifer Bonetti
George W. Neighbor, Jr. Memorial Scholarship Graduate - Loretta Kuo

2009

George W. Neighbor, Jr. Memorial Scholarship Undergraduate – Michelle Schmidt
George W. Neighbor, Jr. Memorial Scholarship Graduate – [REDACTED]

2008

George W. Neighbor, Jr. Memorial Scholarship Undergraduate – Stacie Kaufman
George W. Neighbor, Jr. Memorial Scholarship Graduate - [REDACTED]

2007

George W. Neighbor, Jr. Memorial Scholarship Undergraduate – Christina Mulligan
George W. Neighbor, Jr. Memorial Scholarship Graduate - [REDACTED]

2006

George W. Neighbor, Jr. Memorial Scholarship Undergraduate – Kathryn O'Brien
George W. Neighbor, Jr. Memorial Scholarship Graduate - Joel Stepanchick

2005

George W. Neighbor, Jr. Undergraduate – April McNearney
George W. Neighbor, Jr. Graduate - Evan Bernier

2004

George W. Neighbor, Jr. Memorial Scholarship Undergraduate – Meghan Miller
George W. Neighbor, Jr. Memorial Scholarship Graduate - Deborah Lark

2003

George W. Neighbor, Jr. Memorial Scholarship Undergraduate – Annette Lopez
George W. Neighbor, Jr. Memorial Scholarship Graduate – Kelley Corcoran

2002

George W. Neighbor, Jr. Memorial Scholarship Undergraduate – John Kristofic
George W. Neighbor, Jr. Memorial Scholarship Graduate - Marc LaFrance

2001

George W. Neighbor, Jr. Memorial Scholarship – Allison Curran

2000

George W. Neighbor, Jr. Memorial Scholarship Graduate – Linda Chiu Rourke

1999

George W. Neighbor, Jr. Memorial Scholarship – Kimberbely A. Parker
George W. Neighbor, Jr. Memorial Scholarship – Vincent J. Desiderio

1998

George W. Neighbor, Jr. Memorial Scholarship – Lisa Malachowski
George W. Neighbor, Jr. Memorial Scholarship – Brandy Blackburn

1997- Awards changed to be called George W. Neighbor, Jr. Scholarship

No awards were given out as all applications received were incomplete.

1989 and 1990 No award given out.



The New Home of ASCLD/LAB

COMMITTED · CONNECTED · FOCUSED

Since 1982 it has been our mission to develop and evolve **forensic science accreditation** standards to meet the needs of **our customers** and **yours**.



Quality Matters®

ASCLD/LAB offers a wide range of classroom and web-based training and education programs developed specifically for the **forensic community**.

- Preparation Course
- Internal Auditor Training
- Assessor Course
- Measurement Confidence 100 Series
- Root Cause Analysis

For more information on accreditation requirements, training courses or the accreditation process visit us online at:

asclcd-lab.org

PROCESSES ✓ EQUIPMENT ✓ PERSONNEL ✓ STANDARDS ✓ ENVIRONMENT ✓

A Convenient Container for Sorting Debris

Daniel Rothenberg

Westchester County Forensic Laboratory¹

Often a microscopist has the task of examining debris. The goal may be to find a particular target item, or it may be an evaluation of the types of materials present. Whatever the task, patience and a meticulous approach are required. Hours and even days can pass as the examination progresses. Interruptions that may occur could cause the analyst to lose the distinction between examined and unexamined debris.

This article describes a convenient container for the examination of debris. This container will help with the removal of unwanted debris, maintain the distinction between examined and unexamined debris, and provide a secure means for storing the sample when there is a break in analysis.

The vessel is made from two glass petri dish bottoms. Other required supplies include a glass cutter or a tungsten carbide (or diamond) scribe, tape and a petri dish top (Figure 1). The basic premise of the design involves cutting a hole in the bottom of a petri dish and placing it on top of a second petri dish bottom. Unwanted debris from the upper dish can then be dropped through the hole into the lower dish.

Decide where and how large to make the hole. Use the glass cutter or tungsten carbide/diamond scribe to cut the desired hole in one of the petri dish bottoms. In my example, the hole is approximately 1.25 inches long and 0.5 inch wide. It is a good-sized opening for the typical materials handled in my laboratory. I prefer the hole to be near the perimeter of the petri dish to maximize the remaining space for the debris (Figure 2). When cutting glass, use personal protective equipment such as safety glasses

and cut-resistant gloves.

Prior to assembly, clean the petri dishes with bleach or alcohol. Place the petri dish with the hole on top of the second petri dish bottom and use tape to secure them. If your hole is close to the perimeter, a slight offset in the stacking of the two petri dishes may ensure debris falls into the bottom dish and not out the side (Figure 3).

Place the debris in the top petri dish, away from the hole. While performing the examination, unwanted debris can be pushed to the hole and deposited into the bottom dish (Figure 4). Materials of interest can easily be removed from the top dish and secured in or on an appropriate secondary container. Should a break from the examination be needed, use the petri dish top to cover the entire vessel. The covered container is secure, easy to transport and prevents commingling of unwanted debris (Figure 5).

The glass components are reusable and can easily be cleaned and sanitized with bleach or alcohol. Please be aware of potentially sharp edges if the perimeter of the hole is not smooth.

Plastic petri dishes can be considered but they are subject to static and are not necessarily reusable because they are more difficult to clean.

ACKNOWLEDGMENT

Thank you to Keith Mancini for taking the photographs used in Figures 1–5. ■

See Figures 1–5 on the following page.

¹10 Dana Road, Valhalla, NY 10595; drr5@westchestergov.com

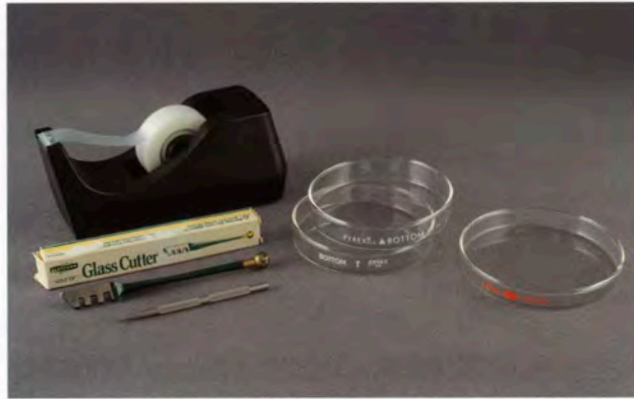


Figure 1. Common laboratory supplies, including two petri dishes used to create a container for sorting debris more easily.

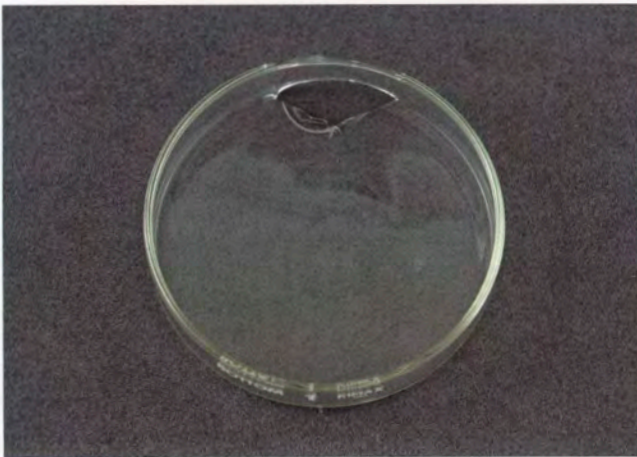


Figure 2. The petri dish bottom with its resulting hole. The size of the hole can be varied to accommodate different types of debris.

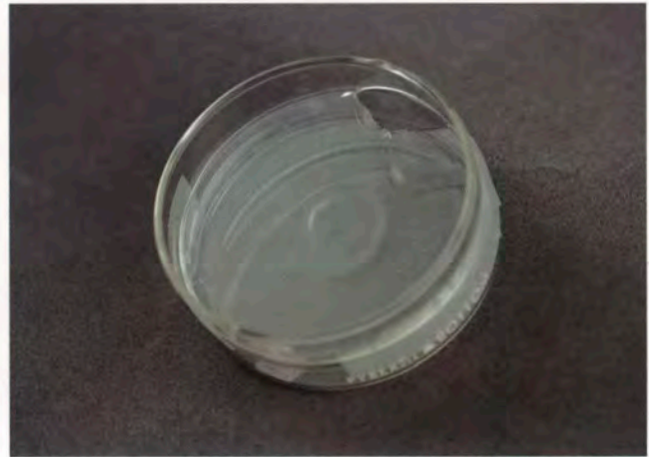


Figure 3. An assembled sorting container consisting of two petri dish bottoms taped together.

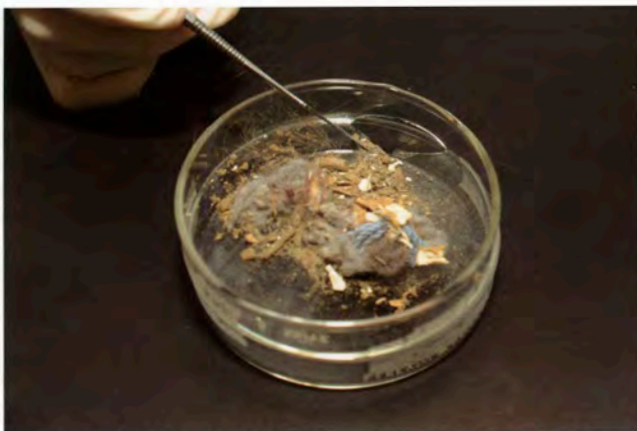


Figure 4. Separation of debris occurs as unwanted materials are deposited into the bottom petri dish by pushing them through the fashioned hole in the top dish.



Figure 5. A petri dish top is used as the cover that keeps the debris in the container secure if a break from sorting is needed.



NEAFS Visiting Scientist Program

Any private or public forensic science laboratory in the NEAFS geographical area needing technical, scientific, or training assistance may apply to the NEAFS Visiting Scientist Program.

Upon request, NEAFS will make a good faith effort to find a qualified individual(s) to come to the laboratory and provide the assistance. The person(s) selected will be agreed upon between NEAFS and the laboratory. NEAFS will subsidize the visit which can be up to 5 working days in duration. Travel logistics will be arranged by the laboratory in conjunction with both the visiting scientist and NEAFS.

Interested laboratories can simply complete the attached application and email it to the NEAFS Education Chairperson at education@neafs.org. The Education Chair will contact the person designated on the form within 10 business days of receiving the application.

The number of quality hours for those claiming continuing education credit as a result of the training will be determined by the instructor(s).

NEAFS Visiting Scientist Request Form

Laboratory:_____

Laboratory Director/Manager:_____

Address:_____

Contact:_____

Phone:_____

Email:_____

Request (Be Specific):

Do you have a particular individual(s) who you wish to be the visiting scientist?

Approximate desired date(s) of visit:_____

Number of individuals attending the training:_____

IMAGINE WHERE YOUR *MASTER'S DEGREE* COULD TAKE YOU.



{M.S. Forensic Science}

- One of the foremost forensic science programs in the nation
- Program stresses up-to-date analytical and scientific methods as well as a broad understanding of the concepts underlying the forensic sciences
- Provides students with the theoretical and practical knowledge necessary to apply analytical and scientific methods to criminal investigation

{M.S. Forensic Technology}

- Combines traditional crime scene techniques with in depth science and technology
- Students will master various forms of forensic field technology such as portable instrumentation and forensic database usage
- Students can develop specialized knowledge in areas such as bloodstain pattern analysis, firearms evidence, and forensic anthropology

{ Graduate Enrollment • gradinfo@newhaven.edu • 203.932.7440 • www.newhaven.edu/grad



| University of New Haven

Northeastern Association of Forensic Scientists 2017 Annual Meeting



November 7th – 10th, 2017
Kalahari Resort & Conference Center
Pocono Manor, PA



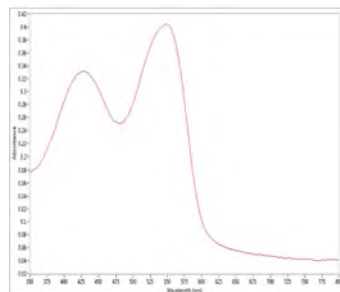
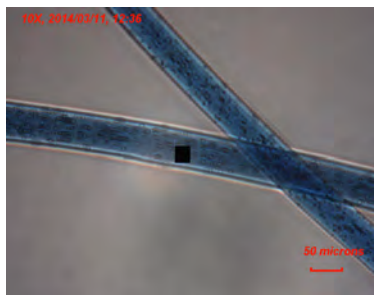
*Beautifully appointed, authentic African-themed rooms and suites
Special conference rate of \$146 per night includes
admission to waterpark!*

*100,000 sq. ft. indoor waterpark
Outdoor adventure park open year-round
Arcade/Mini-bowling/laser tag
Kalahari Spa
Many on-site dining options
Close to outlet shopping*





YOUR SOLUTION FOR TRACE EVIDENCE



CRAIC Technologies is your one-stop solution for trace evidence, glass refractive index, Raman spectroscopy, drugs and explosives analysis, and polarization analysis from the deep UV to NIR. Our instruments also have wavelength and photometric calibration standards traceable to NIST and is proudly Made in America.

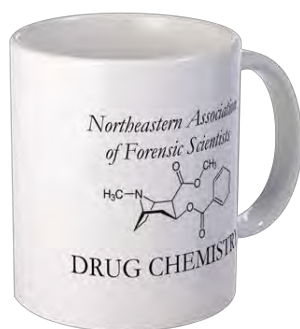
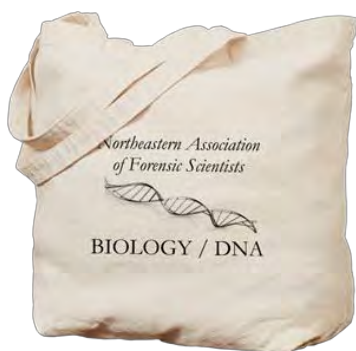
- UV-visible-NIR Microspectroscopy
- Glass Color Spectra
- UV-visible-NIR Fluorescence Spectra
- UV-visible-NIR Microspectroscopy
- Raman Microspectroscopy
- UV-visible-NIR Fluorescence Imaging
- UV-visible-NIR Polarization
- UV-visible-NIR Polarization Imaging
- Glass Refractive Index

**For more information, call
877.UV.CRAIC
or visit our website at
www.microspectra.com**

©2014 CRAIC Technologies, Inc. San Dimas,
California (USA).

The NEAFS Merchandise Shops

at
cafepress.com/NEAFS
&
NEAFS.qbstores.com



**All income generated funds the
Carol DeForest Forensic Science Research Grant.**



NORTHEASTERN ASSOCIATION OF FORENSIC SCIENTISTS

2016 TRAINING SCHOLARSHIP FUND

OPEN APPLICATION PERIOD: JANUARY 1ST, 2016 – DECEMBER 31ST, 2016

APPLICATION REQUIREMENTS

The Northeastern Association of Forensic Scientists (NEAFS) is proud to offer its members a Training Scholarship Fund (TSF). Regular Members, in good standing, are eligible to receive up to \$200 towards training, workshop or non-NEAFS meeting registration and travel expenses. Individuals will only be allowed reimbursement once per application period. Any NEAFS Annual Meeting expenses are ineligible to receive funding. Reimbursement will occur upon receipt of a certificate showing successful attendance and completion of the course along with an article summarizing the course for the NEAFS newsletter.

APPLICATION INSTRUCTIONS

Applicants must submit a *Pre-Approval Application* prior to attending the training for which they wish to obtain funding. All applications must be complete with a brief course description, statement as to how the applicant will benefit from attending the training and justification for receiving funding (i.e. insufficient employer funding or continuing education requirements).

Notification will be given to each applicant upon receipt of the *Pre-Approval Application*. This notification lets the applicant know that their submission has been received by NEAFS and is being reviewed by the Board. In no way shall this notification serve as approval to receive reimbursement or that the applicant will receive any Training Scholarship Funds. Please allow several weeks for the Board to thoroughly review each application. Applicants can expect to be informed of the acceptance or rejection of their application within 60 days of receiving this *Pre-Approval Application* notification.

Upon successful attendance and completion of the training, all pre-approved applicants must submit a *Reimbursement Application* along with supporting documentation. Whenever possible, a certificate should be provided as proof of attendance and completion. If a certificate is not issued or is unavailable, a letter from the organizer/instructor verifying the applicant's successful attendance and completion shall suffice. Each Training Scholarship Fund recipient is required to contribute to NEAFS and its members by publishing a written article in the Newsletter. *Reimbursement Applications* will only be considered complete when accompanied by a 1000-word (minimum) course summary.

Please submit all inquiries, applications and supporting documentation to: awards@neafs.org.

2016 Training Scholarship Fund

The Northeastern Association of Forensic Scientists (NEAFS) is proud to offer its members a 2016 Training Scholarship Fund. Regular members, in good standing, are eligible to receive up to \$200 towards training, workshop or non-NEAFS meeting registration expenses. Detailed instructions and application forms are available on the NEAFS website. Simply click the "Training" link at the top of the screen and scroll down to the "NEAFS Training Scholarship Forms". The current application period is January 1st, 2016 to December 31st, 2016. Reimbursements will be issued on a first come, first serve basis and funding is limited. If you plan to attend a non-NEAFS meeting workshop, training or course during this application period and will not be funded by your agency or any other non-NEAFS related entity, we highly encourage your swift application for the 2016 Training Scholarship Fund. Please visit the NEAFS [training](#) website to take advantage of this great NEAFS opportunity and to view upcoming training opportunities!

Upcoming Training

October 2016

Midwestern Association of Forensic Scientists' Annual Meeting October 3-7, 2016 Branson, Missouri

Hosted by The Missouri State Highway Patrol at the Hilton Branson Convention Center (conventioncenter.hiltonsofbranson.com Group Code: MAFSMO). Contact: Abigail Lehman 573-526-6134 x2529 abigail.lehman@mshp.dps.mo.gov. Visit <http://www.mafs.net/news-feeds-1/mafs-2016-meeting> for more information.

Bevel, Gardner and Associates, Franklin, MA A Forensic Education & Consulting Company Bloodstain Pattern Analysis 1 October 10-14, 2016

Visit <http://www.bevelgardner.com/training/#bpapd> for more information. Course is \$655.00 and includes a textbook and lab manual. For more information or to register contact: Craig Gravel, Bevel, Gardner & Associates, Inc.: Office 405-706-8489; Fax 405-359-7794; rcgravel@bevelgardner.com. Local BGA contact for assistance: Ken Martin: Phone 508-277-5037; kmartin@bevelgardner.com.

October 2016

Houston Forensic Science Center, Houston, Texas
Crime Scene Investigation
October 10-14, 2016

Contact: Jordan Benton, Telephone: 713-929-6769 or Email: registration@houstonforensicscience.org
Website: <http://houstonforensicscience.org/training.php>

Bevel, Gardner and Associates, Franklin, MA
A Forensic Education & Consulting Company
Practical Crime Scene Processing and Investigation
October 31-November 4, 2016

Visit <http://www.bevelgardner.com/training/#pcsbi> for more information. Course is \$655.00 and includes a textbook and lab manual. For more information or to register contact: Craig Gravel, Bevel, Gardner & Associates, Inc.: Office 405-706-8489; Fax 405-359-7794; rcgravel@bevelgardner.com. Local BGA contact for assistance: Ken Martin: Phone 508-277-5037; kmartin@bevelgardner.com.

November 2016

Houston Forensic Science Center, Houston, Texas
Palm Print Comparison
November 2-4, 2016

Contact: Jordan Benton, Telephone: 713-929-6769 or Email: registration@houstonforensicscience.org
Website: <http://houstonforensicscience.org/training.php>

Houston Forensic Science Center, Houston, Texas
Forensic Photography
November 14-18, 2016

Contact: Jordan Benton, Telephone: 713-929-6769 or Email: registration@houstonforensicscience.org
Website: <http://houstonforensicscience.org/training.php>

December 2016

Houston Forensic Science Center, Houston, Texas
IAI Crime Scene Certification Exam Preparation: CSCSA Level
December 12-16, 2016

Contact: Jordan Benton, Telephone: 713-929-6769 or Email: registration@houstonforensicscience.org
Website: <http://houstonforensicscience.org/training.php>

January 2017

Houston Forensic Science Center, Houston, Texas
Forensic Photography
January 9-13, 2017

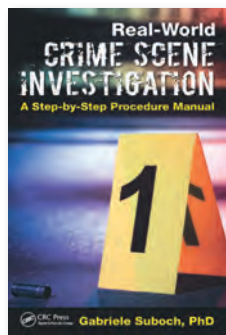
Contact: Jordan Benton, Telephone: 713-929-6769 or Email: registration@houstonforensicscience.org
Website: <http://houstonforensicscience.org/training.php>

Houston Forensic Science Center, Houston, Texas
Introduction to Fingerprint Comparison
January 23-27, 2017

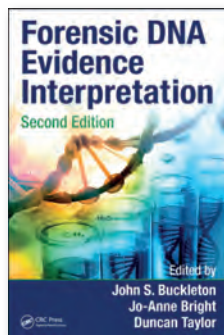
Contact: Jordan Benton, Telephone: 713-929-6769 or Email: registration@houstonforensicscience.org
Website: <http://houstonforensicscience.org/training.php>

**Save
20%**

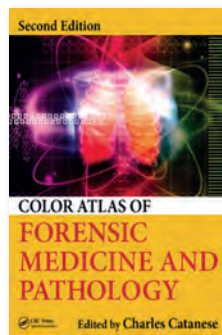
SPECIAL DISCOUNT for NEAFS Members on Top FORENSICS Books



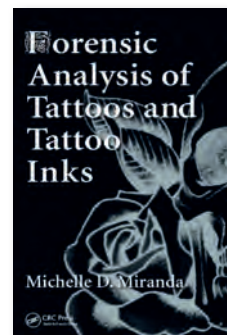
ISBN: 9781498707442
\$59.95



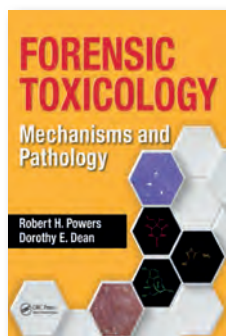
ISBN: 9781482258899
\$109.95



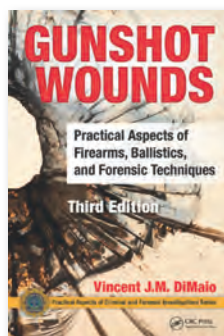
ISBN: 9781466585904
\$249.95



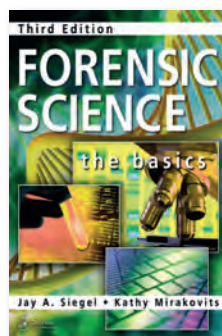
ISBN: 9781482221466
\$129.95



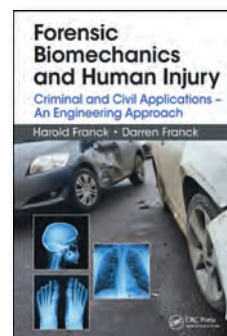
ISBN: 9781466581944
\$139.95



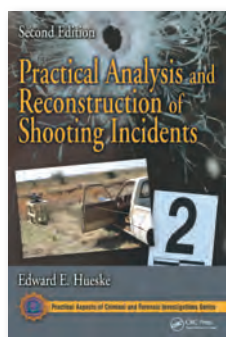
ISBN: 9781498725699
\$89.95



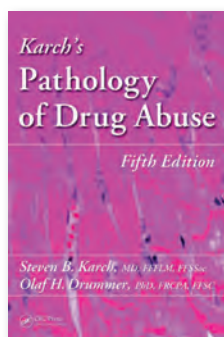
ISBN: 9781482223330
\$89.95



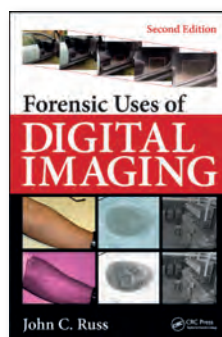
ISBN: 9781482258837
\$99.95



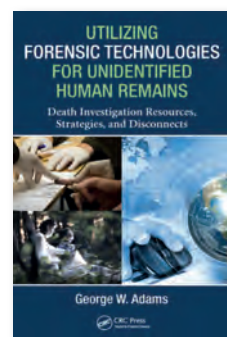
ISBN: 9781498707664
\$99.95



ISBN: 9781439861462
\$159.95



ISBN: 9781498733076
\$89.95



ISBN: 9781482263473
\$79.95

Order online and enter promo code **MWP43** to **SAVE 20%** and receive **FREE SHIPPING**

View our entire forensics and criminal justice collection at
www.crcpress.com



Certification Reimbursement

The NEAFS Board of Directors has voted to reimburse the American Board of Criminalistics and International Association for Identification exam sitting fees for five NEAFS members (regular or associate) in good standing who pass the ABC or IAI exam. This offer is for any exam completed in 2016. There will be an ABC exam offered at the NEAFS Annual meeting at Harrah's. After passing the examination, please fill out the Certification Reimbursement Form (www.neafs.org) and email the completed form with proof of passing the exam to the NEAFS Certification Chair Peter Diaczuk at certification@neafs.org. The reimbursement is based on a first come first served basis. Remember you must pass the ABC or IAI exam to be considered for reimbursement.

Important Notice

The AAFS Board of Directors decided to discontinue the Journal of Forensic Sciences subscriptions for the affiliate groups at the end of 2016. Should members wish to continue subscribing, they may do so directly through the publisher.

Missing Something

Be sure to check the NEAFS website for the latest **Job Opportunities**.

B.O.D. Meeting Minutes and Financial Statements will now be placed in the Member Area of the NEAFS website. If you have trouble logging in please contact the web master, webmaster@neafs.org.

DON'T FORGET TO LIKE US ON FACEBOOK