

NEAFS Newsletter

Volume 48, Issue 2

Summer 2023



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Goodspeed**

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MEET THE 2023 BOD

Elizabeth Duval – President

Massachusetts State Police Crime Laboratory since 2009
Forensic Scientist III, DNA Unit Supervisor - 2019 – present
BS Genetics, Texas A&M University
BS in Forensic Science, University of New Haven

Stephanie Minero– President-elect

Nassau County Office of the Medical Examiner, Division of Forensic Service, Controlled Substance Analysis
2011-present
NYPD Police Laboratory, Controlled Substance Analysis 2008-2011
BS in Forensic Science- Long Island University/CW Post
MS in Biology- Long Island University/CW Post

Alanna Laureano- Secretary

Westchester County Department of Labs & Research, Division of Forensic Sciences Since 2007
Senior Forensic Scientist and DNA Technical Leader
BS in Molecular Biology and Biochemistry- University at Albany, SUNY
MS in Forensic Biology- University at Albany, SUNY

Matthew Marino - Treasurer

New Jersey State Police Office of Forensic Sciences, East Regional Laboratory from November 2011 to present
Forensic Scientist 2 in the Drug Unit, Criminalistics Unit and Quality Assurance Unit
Forensic Technician, Westchester County, NY Forensic Laboratory from July 2007 to September 2011
BS in Natural Sciences with a concentration in Chemistry-St. Thomas Aquinas College

Amanda White - Director

New York State Police Crime Laboratory, FS III- Controlled Substance Analysis from 2019-Present
Westchester County Department of Labs & Research, Controlled Substance Analysis 2016-2019
NYPD Police Laboratory, Controlled Substance Analysis/Latent Print Development 2011-2016
MS Biomedical Forensic Science, Boston University
BS Biology & Anthropology, SUNY Oneonta

Anisha Paul M.S.F.S, D-ABFT-FT - Director

Vermont Forensic Laboratory, Department of Public Safety - Forensic Chemist Toxicology division since 2017
Adjunct professor at Champlain College since 2017
Masters of Science in Forensic Science from Arcadia University
Certified as a Diplomate by the ABFT in the field of Forensic Toxicology

Sarah Roseman - Director

Life is too short for mediocre coffee and Proficiency Tests that don't hit the spot

 Proficiency testing (and inter-laboratory collaborative trials) are an essential component of your quality management program. They are so much more than a 'tick the box exercise'

According to ISO/IEC17025 and ANAB proficiency tests provide a mechanism for participating laboratories to review their results and those of other laboratories to facilitate^{1&2}:

- Management of risk
- An evaluation and appraisal of their performance including:
 - comparison of a facility's performance with other facilities
 - monitoring of a facility's long-term performance
- Continuous improvement including:
 - staff education, training, and competence monitoring
 - evaluation of methods, including the establishment of method precision and accuracy
 - contribution to a facility's overall risk management process
- Corrective action (where required)
- Confidence building with interested parties (e.g. customers, accreditation bodies).

ISO/IEC 170433³ states 'Proficiency test items should match in terms of matrix, measurands and concentrations, as closely as practicable, the type of items or materials encountered in routine testing'

¹ISO17025 (2017) General requirements for the competency of testing and calibration laboratories. ²ANAB ISO/IEC 17025:2017 – Forensic Science Testing and Calibration Laboratories Accreditation Requirements (2019) ³ISO/IEC 17043:2010 Conformity assessment – General requirements for proficiency testing

Forensic Foundations International Proficiency Tests allow you to do more than just tick the box.

- Examine the end-to-end forensic process rather than just the analytical stage
- Developed by experienced forensic scientists
- Reflective of 'real' case work
- Participants undertake the work and report according to their own laboratory practices rather than a proforma
- More than just a collation of results
- Every set of results is reviewed by at least two experienced forensic scientists
- Value add; recommendations for improvement are provided

We are able to provide:

- Bespoke programs
- Declared and blind proficiency tests
- Validation sample sets

Our program covers the fields of:

- ✓ Biological Criminalistics
- ✓ Chemical Criminalistics
- ✓ Document Examination
- ✓ Fingerprint Examination
- ✓ Digital Forensics

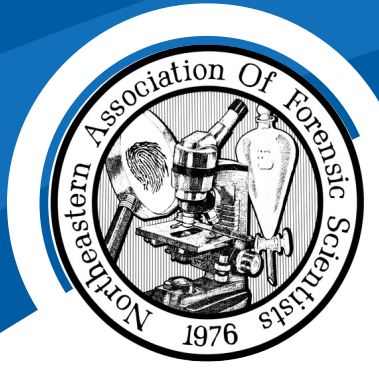
For more detail or to discuss your particular needs, contact us at: quality@ffint.com.au, or download the 2023 brochure from our website <https://files.forensicfoundations.com.au/FF2023PT.pdf>

So enjoy your coffee and get the most out of the money you spend on proficiency tests

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NEAFS - A Message from your President Betsy Duval

Hello my fellow NEAFS Members,

I hope everyone is having a wonderful start to their summer, enjoying nice weather, seeing family and friends, and simply relaxing without worry. Happy to report this year for NEAFS has been filled with good news!

First, what year of progress this wonderful organization has already made. I want to personally thank both the BOD and Staff and all you members who helped make our NEAFS bi-annual membership application and approval process a reality. It was a lot of hard work, coupled with your active involvement to bring this positive change forward by taking the time to read about the changes to your By-Laws and voting on it. As you know, the changes to the By-Laws were passed and now our organization can continue to grow and remain strong by making new membership and current membership upgrades more real-time. Now, new applicants and current members wanting to upgrade will benefit from membership perks without having to wait until the Annual Meeting vote.

Secondly, the BOD and staff are investigating the potential of having NEAFS be a part of a secondary education student outreach program. It's in the exploratory stage but it is just another example of a fabulous suggestion from a NEAFS member(s) on how to make NEAFS lead by better serving the world around us!

Finally, I can also say I'm getting excited about the upcoming meeting! We are a little over four months away from our 49th Annual Meeting upcoming at the Mystic Hotel and Spa in Groton, CT!! This year's meeting, created by our Program Chair Steph Minero, will run from November 6-10th.

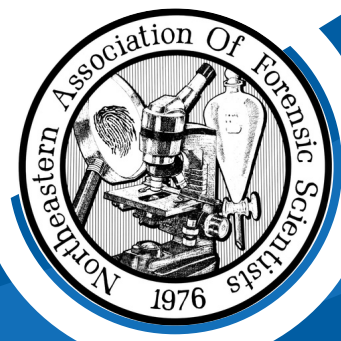
Having lived a stone's throw away from where it is being held, I tell you that the site of this year's meeting is beautiful, the accommodations luxurious, and the hotel is just a short ride from some fantastic attractions like the Mystic Seaport Museum, USS Nautilus, and the Mystic Aquarium. Moreover, this year's meeting is already filled with excellent workshops, fabulous speakers, and new opportunities to explore, grow, and network!

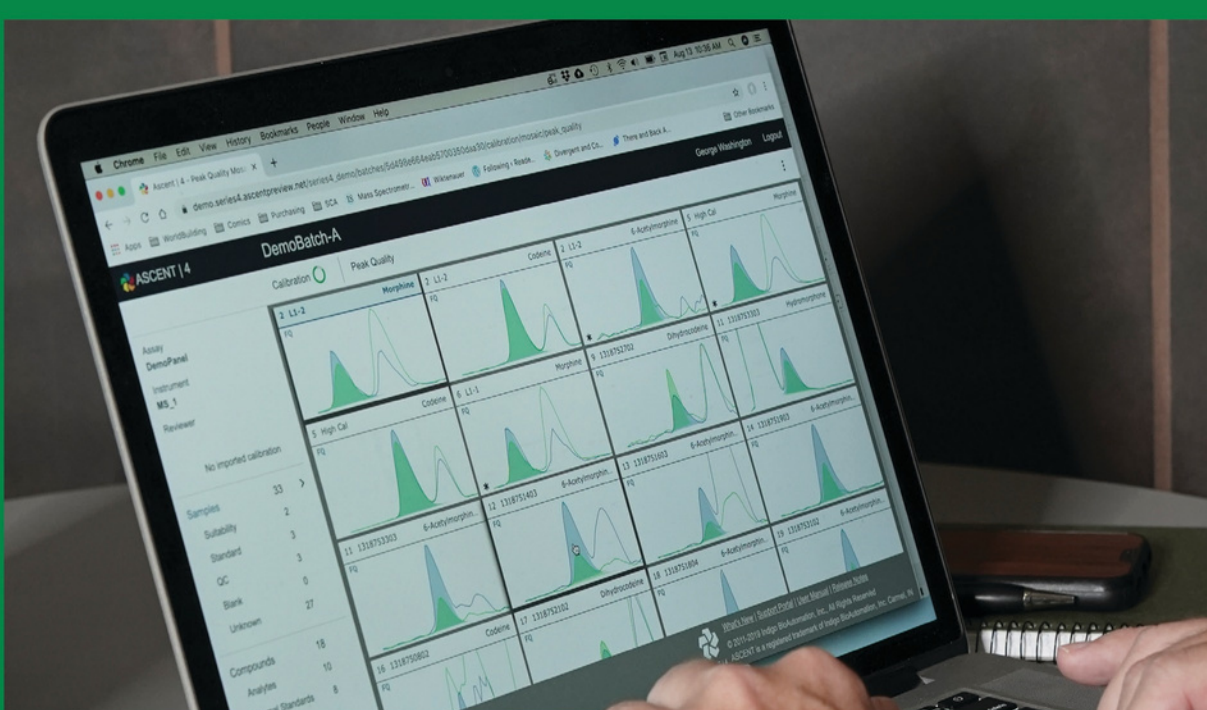
Registration is open and I encourage you to sign up and attend!! We'd love to have a great crowd this year filled with new and familiar faces; some of which we haven't been able to see in years.

Feeling like you'd like to present something this year on behalf of your agency or institution that would help us all develop and learn? **Reminder - all NEAF Members and Active Applicants who present will get a discount reimbursement for registration**, so please go check it out!!

All this information and more can be found on our website at www.neafs.org. If you haven't been on the website recently, I encourage you to please take a moment to refamiliarize yourself. See what benefits NEAFS has to offer; perhaps some you didn't even know about. Simply click on the links and tabs on the homepage to start your exploration. If you have any questions or suggestions, I'd be happy to hear from you and I'm always available to discuss. Please feel free to email me at president@neafs.org

Until November, Take care - Betsy (Elizabeth) Duval





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NEAFs 2023

ANNUAL MEETING

NOVEMBER 6TH, 2023 - NOVEMBER 10TH, 2023

MYSTIC MARRIOTT, GROTON, CT



2023 NEAFS ANNUAL MEETING

REGULAR REGISTRATION STARTS JULY 2ND

MEMBER: \$210

NON-MEMBER: \$325

STUDENT MEMBERS: \$160

STUDENT NON-MEMBERS: \$225

GUEST*: \$170

DAILY MEMBER: \$110

DAILY NON-MEMBER: \$160

STUDENT DAILY MEMBER: \$80

STUDENT DAILY NON-MEMBER: \$110

GUEST* DAILY: \$90

*SEE WEBSITE FOR DETAILS ON GUEST REGISTRATION

REGISTER NOW

2023 ANNUAL MEETING PRELIMINARY SCHEDULE

MONDAY, NOVEMBER 6TH

2:30pm - 4:30pm
Board of Directors
and Staff Outing
6:30pm - 9:30pm
Board of Directors
and Staff Dinner

TUESDAY, NOVEMBER 7TH

7:30am - 9:15am
Registration
7:30am - 9:00am
Breakfast
9:00am - 5:00pm
Full Day Workshops
9:00am - 12:30pm
Half Day AM Workshops
10:30am - 10:45am
Morning Break
12:30pm - 1:45pm
Registration
12:30pm - 1:30pm
Lunch on your own

1:30pm - 5:00pm
Half Day PM Workshops
1:30pm - 4:30pm
Student Forum
3:00pm - 3:15pm
Afternoon Break
5:00pm - 8:00pm
Exhibits Set-Up
5:00pm - 6:00pm
Registration
6:00pm - 8:00pm
Educators' Forum

WEDNESDAY, NOVEMBER 8TH

7:30am - 9:30am
Registration
7:30am - 9:00am
Breakfast
8:00am - 8:00pm
Exhibits
9:00am - 5:15pm
Scientific Sessions

10:30am - 10:45am
Morning Break
12:30pm - 2:00pm
Annual Business Lunch
3:15pm - 3:30pm
Afternoon Break

5:30pm - 7:30pm
Welcome Reception
and Poster Session
6:30pm - 7:30pm
Registration
7:30pm - 9:30pm
Evening Plenary Session

THURSDAY, NOVEMBER 9TH

7:30am - 9:15am
Registration
7:30am - 9:00am
Breakfast
8:00am - 11:30am
Exhibits
9:00am - 11:30am
Morning Plenary Session
10:15am - 10:30am
Morning Break
11:30am - 1:30pm
Exhibits Break-Down
12:00pm - 2:00pm
Annual President's Award Luncheon

2:30pm - 5:00pm
Afternoon Plenary Session
3:30pm - 3:45pm
Afternoon Break
5:30pm - 6:30pm
George W. Chin Cup
Competition
7:00pm - 11:00pm
President's Reception

FRIDAY, NOVEMBER 10TH

7:30am - 9:00am
Breakfast
9:00am - 1:00pm
ABC Exams
9:00am - 12:00pm
Outreach Event

NORTHEASTERN ASSOCIATION OF FORENSIC SCIENTISTS

49 TH ANNUAL MEETING

NOVEMBER 6 TH -10 TH , 2023

MYSTIC MARRIOTT

625 NORTH ROAD

GROTON, CT

CALL FOR PAPERS AND POSTERS

MEMBERS AND ACTIVE APPLICANTS

ELIGIBLE FOR \$75 REIMBURSEMENT IF
SUBMITTED PRIOR TO AUGUST 15 TH

DEADLINE: SEPTEMBER 15 TH , 2023

Note: All presenters must register for the meeting. Request for reimbursement must be submitted after presentation has been given and submitted to the NEAFS Treasurer using the electronic Travel and Expenses form. Must include proof of registration, payment, and listing in program booklet to qualify.

Note: Author designations, associations, and presentation titles will be printed in the meeting booklet and proceedings **as submitted**. Contact individual session chairs with revision requests.

**TAKE YE TO THE
ABSTRACT FORM**





THE MYSTIC MARRIOTT HOTEL & SPA *Groton, CT*

NOVEMBER 6TH - 10TH, 2023

Room Rate Per Night Total \$160 (Plus state and local taxes)

Group Rate Start Date: Sunday, November 5, 2023

Group Rate End Date: Saturday, November 11, 2023

Last Day to Book: Friday, October 6, 2023

Why is it important to book in the block? NEAFS has secured a room block and is providing discounted rates to NEAFS 2023 attendees based on a guaranteed percentage of attendees staying in the official conference hotel. Booking a hotel room outside of NEAFS's block impacts NEAFS meeting space, dates and rates in future years. Guaranteeing room blocks gives associations the opportunity to negotiate concessions, such as better room rates, free Internet, less expensive food and beverage, number of meeting rooms, affiliate meeting space, gym access, etc. Housing is a key component in how this leverage is measured, and booking outside of the contracted block decreases NEAFS's negotiating power—ultimately making the meeting more expensive and forcing future registration and hotel prices to increase! We know none of us wants to see higher attendance costs.

BOOK FOR 2023 NEAFS CONFERENCE

NEAFS 2023 ANNUAL MEETING



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Case Study #2

Fast and Accurate Quantification of Illicit Drugs via Quantitative NMR (qNMR)

Why benchtop NMR?

- Faster than chromatography methods with typical measurement times ranging between 1 – 10 minutes.
- Identify and quantify new designer drugs with a non-targeted analytical method that does not require high purity, chemical structure specific calibrants.
- Non-destructive.
- Low maintenance.
- Reduce solvent costs and quantity.
- Accessible. Affordable. Automatable.



Simple sample preparation

Easy, repeatable, and operator independent sample preparation. Dissolve it, run it!



Reduce operating expenditures

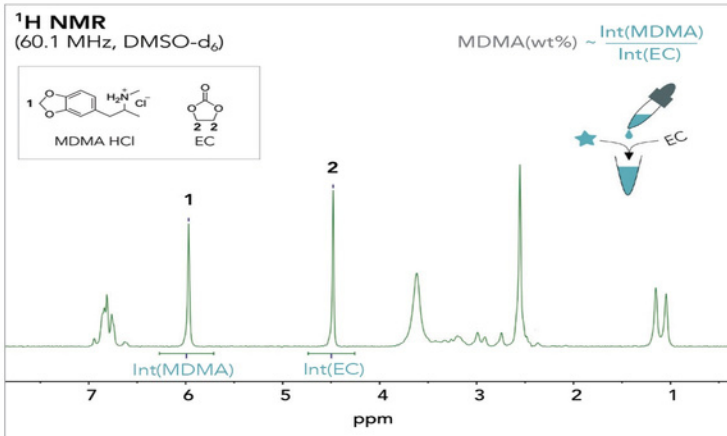
Unlike superconducting high-field magnets, benchtop NMR does not require liquid cryogenes.

Eliminate the use of large-volume, high-purity solvents, as needed in chromatography.



Identifying the unknown

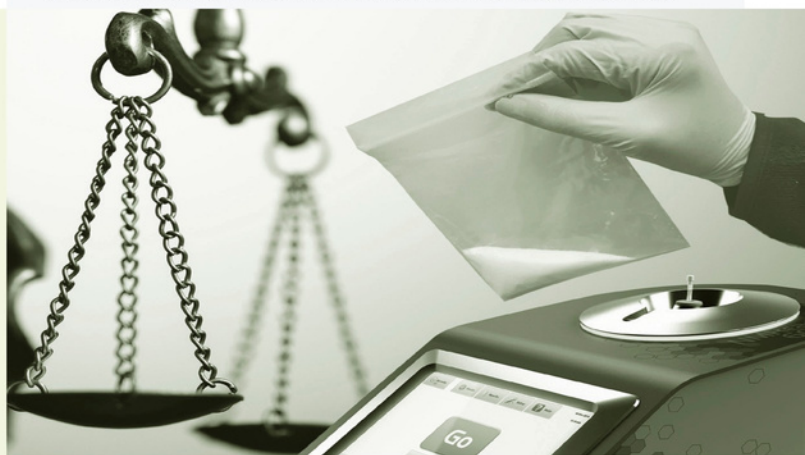
Fast and precise results. No reference material necessary.



A Generalizable Method

Similar to a ¹H qNMR method^[1] for MDMA, any illicit drug can be quantified employing any number of suitable, versatile calibrant(s). Here, we used ethylene carbonate (EC) as internal calibrant. The limit of detection (LOD) and limit of quantification (LOQ) were determined to be 0.10 mg/mL and 0.33 mg/mL, respectively.

^[1] Frinculescu, A.; Maier, A. F. G.; Shine, T.; Ramsey, J.; Araneda, J. F.; Riegel, S. D.; Frascione, N.; Abbate, V. J. *Pharm. Biomed. Anal.* 2022, 214, 114728.



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NEAFS 2023 WORKSHOPS



11/07

Full Day 9am - 5pm

Leadership Training for New Supervisors

An Introduction to Automated Gunshot Residue Analysis on the Scanning Electron Microscope

Work Smarter: Utilizing New Light Source Innovations to Help Reduce Your Backlog

<i>Regular Member</i>	\$60
<i>Non-Member</i>	\$100
<i>Student Member</i>	\$40
<i>Student Non-Member</i>	\$60

Half Day 9am - 12:30pm & 1:30pm - 5pm

Emerging NPS Trends: Comprehensive and Collaborative Workflows for Timely Identification and Analysis

Fundamentals of LC/MS and LC/MS/MS for Quantitative and Qualitative Analyses

Future Trends in Forensic DNA Technology

Balance Calibration and Assurance of Weighing Accuracy in the Forensic Laboratory

High Resolution Accurate Mass Screening of Emerging Benzoimidazoles and Xylazine Mixed with Synthetic Fentanyl Analogues Using Agilent LC\MS\MS QTOF

Using Next-Generation Sequencing To Improve Casework Outcomes

<i>Regular Member</i>	\$30
<i>Non-Member</i>	\$50
<i>Student Member</i>	\$20
<i>Student Non-Member</i>	\$50

SEE FOLLOWING FOR DETAILS

FULL DAY

WORKSHOPS

Tuesday, November 7th 2023 9:00am - 5:00pm

LEADERSHIP TRAINING FOR NEW SUPERVISORS

Laura Tramontin, M.S., CFM-I, LAT Forensics, LLC

NEAFS Past-President, Laura Tramontin, shares her knowledge as a Certified Forensic Manager - Level 1 and 18 years of experience in a supervisory role to help new supervisors be well informed as they step into their leadership role. The day will be spent going through collaborative techniques to improve leadership, handle change, improve communication and team building. Attendees will learn a lot about themselves as they begin to develop their leadership style. Agenda items include Laws of Leadership, Phases/Models of Change, Forms/Goals of Communication, and Team Building Concepts. Interactive breakout sessions will reinforce the topics covered,



LAT Forensics, LLC
Leadership & Experience

AN INTRODUCTION TO AUTOMATED GUNSHOT RESIDUE ANALYSIS ON THE SCANNING ELECTRON MICROSCOPE

David C. Edwards and Jens Breffke, Ph.D., JEOL USA, Inc.

To achieve consistent results from an automated GSR analysis system, the analyst must have a good understanding how their Scanning Electron Microscope (SEM) and the Energy Dispersive Spectrometry (EDS) system operates. This workshop will cover the basic principles of operation of these instruments emphasizing those physical principles and parameters that influence the quality (speed, sensitivity, and reproducibility) of the GSR analysis. This is a hands-on course in which the attendee will have the opportunity to utilize the learned techniques on the SEM instrument. Agenda items include an introduction to SEM and comparison between Tungsten source and Field Emitter SEMs, introduction to the theory and hardware, controlling of speed of acquisition and correlation to quality of spectra, setting up automation and balancing speed, reproducibility, and sensitivity of particle detection, and live demonstration and performance of the step-by-step procedure for setting up a GSR batch run.



WORK SMARTER: UTILIZING NEW LIGHT SOURCE INNOVATIONS TO HELP REDUCE YOUR BACKLOG

Amanda Silva, foster+freeman USA

Finding, collecting, and processing serology evidence at the crime scene and in the laboratory can be time consuming, especially on difficult patterned backgrounds. Advances in new technology pave the way for smarter, more efficient processing techniques. Attendees of this workshop will be given an overview of light theory and refresher on traditional methods for evidence locating and collection. Attendees will then be introduced to new methodologies and techniques that involve beyond visible photography, bandpass filtering, and oblique lighting options to increase their collection and processing efficiency and cut down on agency backlogs. Attendees are encouraged to bring their own full spectrum DSLR camera and thumb drive if available.

foster+freeman

FORENSIC SCIENCE INNOVATION



HALF DAY AM

WORKSHOPS

Tuesday, November 7th 2023 9:00am - 12:30pm

EMERGING NPS TRENDS: COMPREHENSIVE AND COLLABORATIVE WORKFLOWS FOR TIMELY IDENTIFICATION AND ANALYSIS

Kyle Brown, Sara Walton, Chelsey Deisher, and Michael Lamb, NMS Labs

Novel Psychoactive Substances (NPS) continue to present unique challenges in seized drug and toxicology casework. Early detection and subsequent method development/validation are important in alerting the public health community to the presence of emerging drugs. This workshop will describe various approaches to the identification and continued monitoring of NPS from the perspective of the forensic chemist and toxicologist. This discussion will highlight the significance of a system for early monitoring of new drugs and investigation of unknowns in routine casework. Additionally, this workshop will discuss current trends in various NPS (cannabinoid isomers, designer benzodiazepines, nitazene compounds, etc) in postmortem and impaired driving toxicology casework.



FUNDAMENTALS OF LC/MS AND LC/MS/MS FOR QUANTITATIVE AND QUALITATIVE ANALYSES

Jim Lau, Ph.D. and Doug Postl, Agilent Technologies

LCMS is a broad and complex field, but to be successful using LCMS for quantitative and qualitative analyses, we can simplify the experiment to basic parts. An analyte must be converted into an ion, the ion must be monitored efficiently, and you must be able to differentiate between the analyte, other analytes, and matrix in a sample. The discussion will start with optimum ionization (ESI, APCI, etc) and transition to mobile phase selection. Acceptable mobile phases for HiLIC, reversed phase ion-pair, and reversed phase LCMS to be covered. After ionization of the analyte, we will look at the concept of "duty cycle" for precision and sensitivity. The advantages of nominal mass (quadrupole and triple quadrupole) and high resolution accurate mass (HRAMS) will each be explored and how SIM and scan effect the duty cycle. Scanning efficiency in the HRAMS experiment will also be discussed. Selectivity in nominal mass derives from the MSMS experiment and in particular, use of the important parameters for SRM and MRM (Precursors, Products, and Time). We will finish with a discussion of compound class prediction via Reporter fragment ions and Neutral loss fragments. The HRAMS concept of mass defect for compound class prediction will also be explained and simplified.



FUTURE TRENDS IN FORENSIC DNA TECHNOLOGY

Laura Ascroft, ThermoFisher Scientific

The workshop will explore the latest topics in DNA technology sponsored by Thermo Fisher Scientific, including: an overview of the Applied Biosystems™ HID NIMBUS® Presto System for Automated Sample Purification, advancements in the Applied Biosystems™ RapidHIT™ ID System, updates on the Connecticut Rapid DNA Program, and introducing the Applied Biosystems™ SeqStudio™ Flex Series Genetic Analyzer for Human Identification and GeneMapper™ ID-X Software v1.7

ThermoFisher
SCIENTIFIC



HALF DAY PM

WORKSHOPS

Tuesday, November 7th 2023 1:30pm - 5:00pm

BALANCE CALIBRATION AND ASSURANCE OF WEIGHING ACCURACY IN THE FORENSIC LABORATORY

David Cirullo, Mettler Toledo

We will be taking an in depth look at all the life-cycle steps of a balance and its use in the Forensic Laboratory. Assuring measurement accuracy when purchasing a new balance, through calibration / performance testing and internal adjustment mechanisms. This workshop will also help you understand and defend the accuracy of every measurement made on your balance. This workshop will address the history and growth of Mettler Toledo Inc., various weighing applications and the balances used for each, an overview of the life cycle and management of balances, important weighing terminology, purchasing a fit-for-purpose balance, proper installation, calibration and performance testing, and internal adjustment functionality (FACT). In addition, measurement uncertainty (absolute and relative), estimation of uncertainty through the entire lifespan of the balance, determination of minimum weight through calibration, and establishing a safe weighing range. An in-depth view of the calibration process and an interpretation of the resulting calibration certificate with statement of measurement uncertainty will be provided.



HIGH RESOLUTION ACCURATE MASS SCREENING OF EMERGING BENZIMIDAZOLES AND XYLAZINE MIXED WITH SYNTHETIC FENTANYL ANALOGUES USING AGILENT LC\MS\MS QTOF

Julie Cichelli, Agilent Technologies and Dan Harrington, Suffolk County Crime Lab

In recent years, laboratories have been struggling to keep up with new emerging synthetic illicit drugs being introduced faster than they can adapt. As new and more potent opioids, and moreover, a number of synthetic substances of benzimidazole structural class are being trafficked and abused for their opioidlike effects as well as xylazine, a non-opioid veterinary tranquilizer not approved for human use, has been linked to an increasing number of overdose deaths nationwide in the evolving drug addiction and overdose crisis. Studies show people exposed to xylazine often knowingly or unknowingly used it in combination with other drugs, particularly illicit fentanyl are appearing in society every day, it is imperative to have analytical strategies to analyze for these compounds in both a targeted and untargeted manner. Immunoassay-based techniques have historically been the methods of choice for drug screening. Positive presumptive drug screen results are reflexed to more specific, confirmatory testing using gas or liquid chromatography coupled to mass spectrometry. False positives and false negatives with immunoassay techniques are common problems that have substantial down-stream consequences for inaccurate results, laboratory operations, and total costs. Thus, the use of high-resolution accurate mass liquid chromatography mass spectrometry (LC-QTOF-MS) is ideally suited for rapid analysis of emerging drugs without the drawbacks associated with legacy techniques and methodology. Herein, a targeted and untargeted screening workflow by HRAM LC/MS/MS using Agilent's 6546 QTOF will be presented for these emerging illicit drugs.



HALF DAY PM

WORKSHOPS

Tuesday, November 7th 2023 1:30pm - 5:00pm

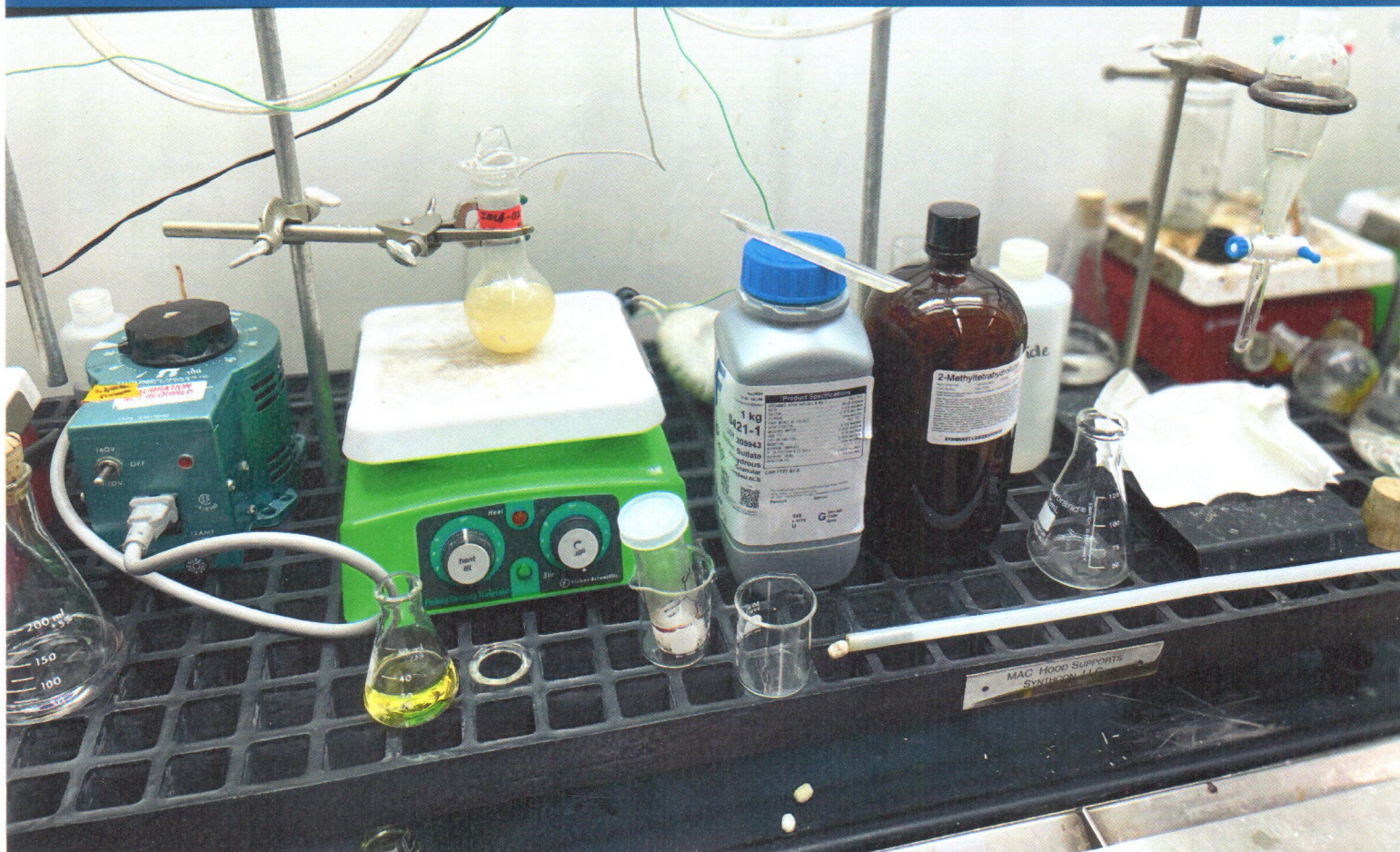
USING NEXT-GENERATION SEQUENCING TO IMPROVE CASEWORK OUTCOMES

Melissa Kotkin, Verogen

In the last few years, next-generation sequencing (NGS) has demonstrated that it can extract additional information from DNA samples for investigations when current technology fails. When a CE-based STR profile does not produce a hit in traditional databases, NGS capabilities such as higher-plex marker panels, more discriminatory SNP data, and forensic genetic genealogy can provide insights that lead to identifications. The forensic community is recognizing this technology as a viable option for missing persons and unidentified human remains investigations, sexual assault cases, and other violent crimes and are exploring how it can be integrated as more than just a specialty tool. The questions being asked are now focused on the practical aspects of implementation, such as whether this technology is a good financial investment, whether NGS can benefit everyday investigations, and how do you validate. This workshop seeks to share the journey of adopting NGS into their operational casework, and will provide useful information, arguments, case studies, and soft skills as you prepare for your own. The benefits of next-generation sequencing (NGS) for human identification analysis are increasingly understood but perceived barriers to implementation for general operations still exist. NGS can not only add power to existing processes but also provide unique capabilities for the increasing number of investigations which are beyond the capacity of traditional methods to solve. We will highlight how a range of NGS-based investigative tools can be used to support both mainstream and more advanced analyses for missing persons investigations. This workshop will cover traditional direct comparison DNA analysis with STRs, how to access and use phenotypic and biogeographical information, the different available technologies for forensic investigative genetic genealogy and when to use them, practical workflows that can be implemented into routine laboratory operations, and funding opportunities for NGS.



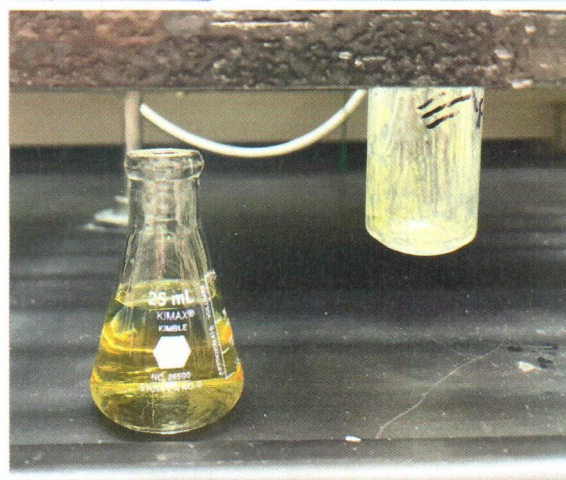
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pending

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ON YOUTUBE



Photos: MHS Safety Device installed in organic chemistry laboratory at UCCS' Department of Chemistry and Biochemistry.



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STUDENT FORUM



7 NOV, 2023



**1:30-
4:30 PM**

**NEW DATE
NEW TIME**

NEAFS STUDENTS

**2023 ANNUAL MEETING
NOVEMBER 6-10TH
MYSTIC MARRIOTT
GROTON, CT**



OPPORTUNITIES INCLUDE:

**DISCOUNTED
REGISTRATION**

**PETER DE FOREST
STUDENT COMPETITION**

FREE STUDENT FORUM

TUES, NOV. 7TH @ 1:30PM

**GEORGE W. CHIN
COLLEGIATE COMPETITION**

THURS, NOV. 9TH @ 5:30PM

Register now for best rates
www.neafs.org/neafs-annual-meeting.

Students

Are you a current full-time undergraduate student in your junior or senior year, or are you either a part-time or full-time graduate student completing his or her degree in a forensic program at a regionally accredited institution located in the Northeastern U.S.*?

Then you are eligible to apply for:

George W. Neighbor Jr. Memorial Scholarship (undergraduate) - Award is \$1750
George W. Neighbor Jr. Memorial Scholarship (graduate) - Award is \$1750
George W. Chin Memorial Scholarship - Award is \$2000

Carol De Forest Forensic Science Research Grants - Award is \$2500

*Note - eligibility is for both full-time undergraduate and graduate students

** Note - Two Research Grants will be Awarded.

All submission materials for either the scholarships or the research grants must be completed, and electronically submitted by April 30th. The Awards recipients will be notified no later than September 1st .

For more information and eligibility requirements visit <https://www.neafs.org/scholarships-awards>

Questions or comments? Please email awards@neafs.org

*Connecticut, Rhode Island, Massachusetts, New Hampshire, Vermont, Maine, New Jersey, New York, and Pennsylvania



EDUCATORS FORUM

TUESDAY, NOVEMBER 7TH | 6-8 PM

2023 NEAFS Annual Meeting

NEW DATE, NEW TIME

NEAFS EDUCATORS

**2023 ANNUAL MEETING
NOVEMBER 6-10TH
MYSTIC MARRIOTT
GROTON, CT**



FREE EDUCATORS' FORUM

TUES, NOV. 7TH @ 6:00PM

Join educators at levels from high school to graduate school to discuss current issues and trends in both general and forensic science education.

Network with faculty from schools across the Northeast.

Register now for best rates
www.neafs.org/neafs-annual-meeting.

● NEAFS 2023 ANNUAL MEETING

SPEAKERS

WEDNESDAY, NOVEMBER 8TH

7:30PM - 9:30PM

Evening Session : Det. Malcom Reiman (as seen on Netflix's the Time Square Killer) of the NYPD Bronx Homicide Squad (retired).

THURSDAY, NOVEMBER 9TH

9:00AM - 11:30AM

AM Plenary : Dr. Itiel Dror
(Cognitive Consultants International)

12:00PM - 2:00PM

Luncheon : Mark Desire (Assistant Director, NYC OCME) will speak about his time at Ground Zero and the advancements of the OCME 9/11 Victim Identification Program as technology has evolved over the last 22 years.

2:30PM - 5:00PM

PM Plenary : Tiffany Roy, MSFS, JD (ForensicAid)
John Morgan, PhD (Loyola University)



**NEAFS
2023
ANNUAL
MEETING**

EVENING SESSION SPEAKER

MALCOLM REIMAN

Using DNA in Homicide Investigations
Including Serial Killers and Cold Cases:
Stories from the Bronx Homicide Squad.

**Wednesday, November 8th
7:30 PM - 9:30 PM**



The September 11th terrorist attacks mark a moment in the history of the United States like no other. As he crawled from the collapsed building, bloodied, broken and surrounded by death, New York City Forensic Scientist Mark Desire gained a new perspective on his work and commitment. Mark will tell the story of hardship and pain, and how it pushed his team to constantly adapt and evolve. This isn't just discovering what you are capable of, this is defining yourself to tackle any obstacle. It's not about the accomplishment, it's about what you become trying to reach that goal. The mission is unending. The commitment has not wavered. No matter how hard we're hit or how many times we fall, we will never give up.

**NEAFS
2023
ANNUAL
MEETING**

LUNCHEON SPEAKER

**MARK
DESIRE**

From the Ashes: Death as Our Mentor

**Thursday, November 9th
12:00 PM - 2:00 PM**



Itiel Dror (Ph.D. Harvard) is a cognitive neuroscientist who is interested in the cognitive architecture that underpins expert decision making. Dror's research, published in over 150 research articles, cited over 10,000 times (source: Google Scholar), demonstrates human vulnerabilities in expert reasoning and decision making. He has worked in a variety of domains, from policing and aviation, to medical experts and bankers, showing that cognitive and human factors impact even hard working, dedicated and competent experts. Specifically, in expert evidence he has focused attention and highlighted the issues of bias and noise, and how to overcome these weaknesses (the topics of this Keynote). Dr. Dror has worked with and trained many agencies in various countries on how to minimize errors and enhance expert decision making. More information is at: <http://www.cci-hq.com/dr.-itiel-dror.html>

NEAFS
2023
ANNUAL
MEETING

AM PLENARY SPEAKER

DR. ITIEL DROR

Overcoming Human Weaknesses in Expert
Decision Making

Thursday, November 9th
9:00 AM - 11:30 AM



TIFFANY ROY MSFS, JD is a Forensic DNA expert with over sixteen years of forensic biology experience in both public and private laboratories in the United States. She holds a bachelor of science degree from Syracuse University, a Juris Doctor from Massachusetts School of Law, a graduate certificate in the area of Forensic Serology and DNA and Master of Science in the area of Forensic Science from the University of Florida. Roy is a member of the American Academy of Forensic Sciences, the Northeastern Association of Forensic Scientists and the Massachusetts Board of Bar Examiners. She is certified in the area of Forensic Biology by the American Board of Criminalistics. She has processed thousands of DNA samples and thousands of cases over the course of her career. She has provided expert witness testimony in more than one hundred cases in state, federal and international courts. She instructs undergraduates at University of Maryland Global Campus; Southern New Hampshire University and acts as a consultant for attorneys and the media in the area of forensic biology through her firm, ForensicAid, LLC. Shas has written three textbooks and been published in peer reviewed journals in the area of Human Factors as they relate to Forensic DNA Interpretation. She currently serves on the NIST Expert Working Group on Human Factors in Forensic DNA Analysis in the testimony and reporting subgroup.

NEAFS
2023
ANNUAL
MEETING

PM PLENARY SPEAKER

TIFFANY ROY

Human Factors in DNA Testimony and
Reporting

Thursday, November 9th
2:30 PM - 5:00 PM



Dr. John S. Morgan conducts research and education related to forensic science, organizational improvement, and expert errors. He brings decades of experience conducting and directing research programs across the federal government and private sector. His current work includes development of the National Association of Forensic Science Boards and wrongful convictions research and training.

Dr. Morgan's government positions include service as Command Science Advisor for the US Army Special Operations Command, Deputy Director for Science and Technology at the Counter-Terrorism Technical Support Office, and Director of the Office of Science & Technology in the Department of Justice's National Institute of Justice (NIJ). While at NIJ, he received the Service to America medal for his work to expand the nation's capacity to perform DNA analyses. He has also chaired the Interagency Council on Applied Homeland Security Technology.

Dr. Morgan has conducted scientific research and development for the Johns Hopkins Applied Physics Laboratory, RTI International, and the Department of Justice. His work has encompassed forensic science, law enforcement technology, defense against weapons of mass destruction, optoelectronics, and the root causes of expert errors.

Dr. Morgan served eight years in the Maryland House of Delegates, representing Howard and Prince George's counties and serving on the Judiciary, Ethics, and Commerce and Government Matters Committees. He also served as the Congressional Science Fellow of the American Physical Society.

He received his Ph.D. in Materials Science and Engineering from Johns Hopkins University in 1990; his B.S. in Physics is from Loyola University in Maryland, where he is currently an instructor in the Forensic Studies program.

**NEAFS
2023
ANNUAL
MEETING**

PM PLENARY SPEAKER

**DR. JOHN
MORGAN**

Forensic Science Improvement Strategies:
Lessons from Miscarriages of Justice in the
Northeastern United States

**Thursday, November 9th
2:30 PM - 5:00 PM**



Chin Cup Competition

**THURSDAY
NOVEMBER 9TH
5:30PM - 6:30PM**

**NEAFS 2023
ANNUAL MEETING**



**NEW DATE
NEW TIME**



COME OUT AND SUPPORT YOUR TEAM

*and then celebrate at the
President's Reception!*



NEAFS PRESENTS A

NEAFS YEARS

EVE

Presidents

Reception

9 NOVEMBER

AT 7.00 PM

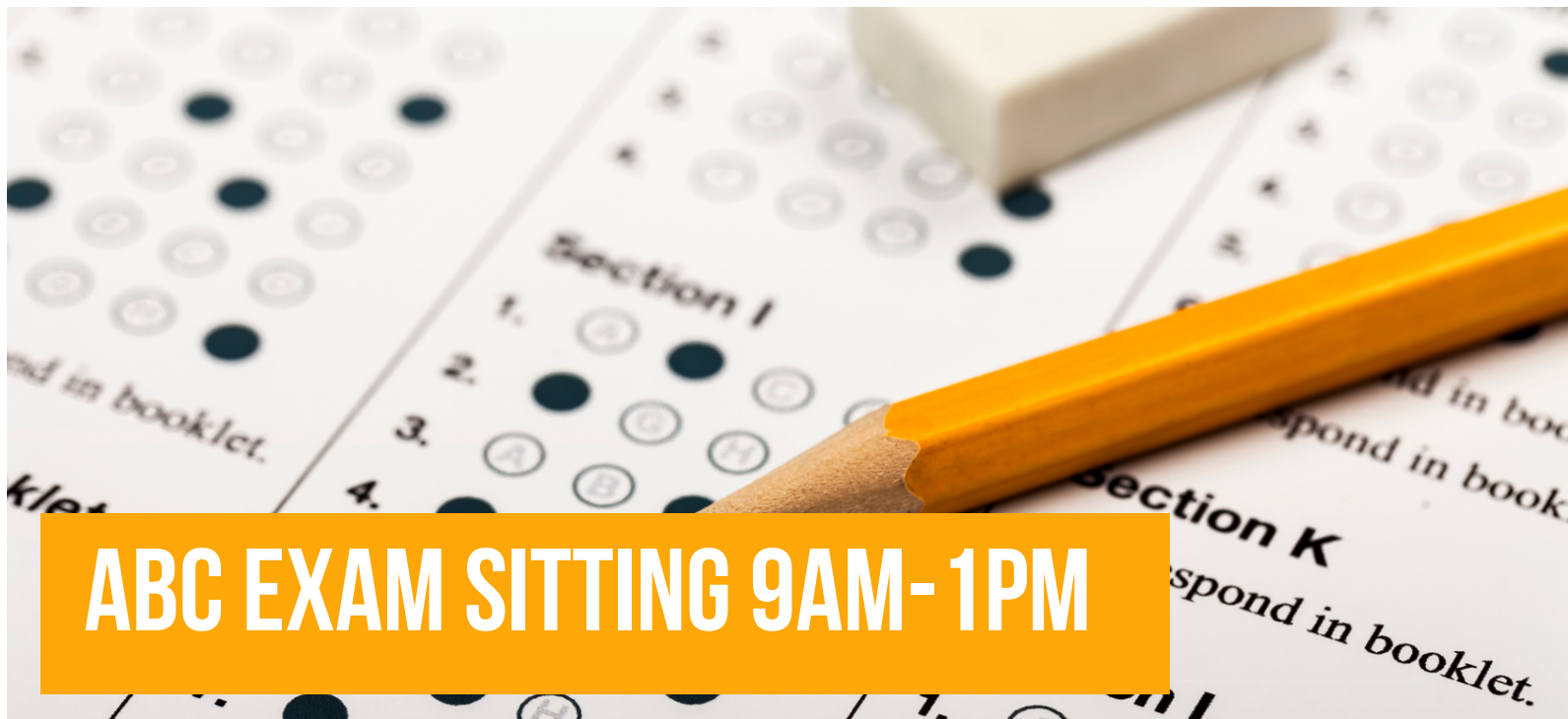
NEAFS 2023

Annual Meeting

LIVE MUSIC

DRINKS





ABC EXAM SITTING 9AM-1PM



The Forensic Science community has an obligation to:

- Establish professional levels of knowledge, skills and abilities;
- Define a mechanism for achieving these levels;
- Recognize those who have demonstrated attainment of these levels;
- Promote growth within the profession.

CERTIFICATION

Certification is a voluntary process of peer review by which a practitioner is recognized as having attained the professional qualifications necessary to practice in one or more disciplines of criminalistics. The ABC offers a certifications in biological evidence screening, forensic DNA, molecular biology, drug chemistry, and comprehensive criminalistics.



[HTTPS://WWW.CRIMINALISTICS.COM/](https://www.criminalistics.com/)

NORTHEASTERN ASSOCIATION OF
FORENSIC SCIENTISTS

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 during the current year. After passing the examination, please fill out the Certification Reimbursement Form (<https://www.neafs.org/certification>). 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.

For more information about the examination sitting, please contact...

Peter Diaczuk
certification@neafs.org

For more information about certification with the ABC, please visit...

American Board of Criminalistics
<http://www.criminalistics.com>

For more information about certification with the IAI, please visit...

The International Association for Identification
<https://www.theiai.org/certifications.php>



Friday, November 10th
9:00am until Noon
MYSTIC MARRIOTT
GROTON, CT

OUTREACH EVENT

VOLUNTEERS NEEDED



Speak with High School students
interested in Forensic Science.

CONTACT STEPHANIE MINERO
PRESIDENTELECT@NEAFS.ORG

FRIDAY, NOV. 10TH

OUTREACH EVENT & COLLEGE FAIR

9:00AM until NOON

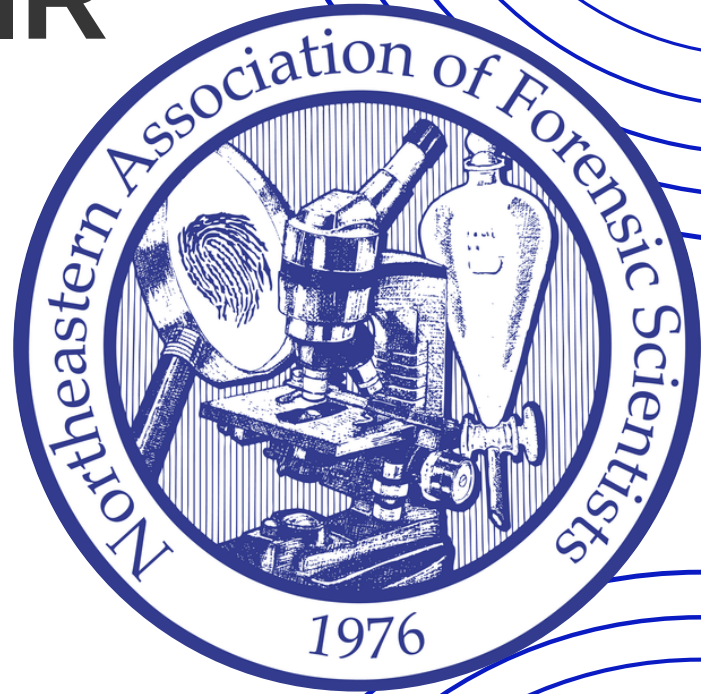
MYSTIC MARRIOTT
GROTON, CT

***Are you a High School
student interested in
Forensics?***

- Hear from Forensic Science professionals from various disciplines and agencies.
- Opportunity for Q&A.
- Visit representatives from colleges and universities with Forensic Science programs.

Volunteers Needed

Contact Stephanie Minero
presidentelect@neafs.org



Welcome

NEW MEMBERS

SARA ALVARO

THE COLLEGE OF SAINT ROSE

RACHEL OEFELEIN

DNA LABS INTERNATIONAL

CASEY CASTLE

GREENSBURG REGIONAL LABORATORY

PERLA TORRES

MAINE DHHS-CDC

KRISTA LUNDGREN, KRISTINA VANINETTI

MASSACHUSETTS STATE POLICE CRIME LABORATORY

DIANA VARGAS

NYPD- POLICE LABORATORY

KATHRYN BOTTING, EMMI SLIVKA

NEW YORK STATE POLICE CRIME LABORATORY

EDWARD STRIMLAN

POINT PARK UNIVERSITY

RACHEL ALIBOZEK, AMBER BUDMARK

RHODE ISLAND DEPARTMENT OF HEALTH

Welcome

NEW MEMBERS

MEGHAN SMOKER

STATE OF MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY

MARY CORRIGAN, LUCIE CUSACK

UNIVERSITY OF NEW HAVEN

Welcome

BACK

JENNIFER MONTGOMERY

MASSACHUSETTS STATE POLICE CRIME LABORATORY

AMANDA ARAUJO

RHODE ISLAND DEPARTMENT OF HEALTH

Congratulations

UPGRADED MEMBERS

UPGRADED TO EMERITUS MEMBERSHIP STATUS

ALBERT ELIAN. CHRISTOPHER CHANY.
DAVID WURTZ. & ROBERT SHIPMAN

UPGRADED TO REGULAR MEMBERSHIP STATUS

ALEXANDRA KOCAJ

NASSAU COUNTY DIVISION OF FORENSIC SERVICES

AMANDA KIRINCIC

WESTCHESTER COUNTY FORENSIC LABORATORY

CLAIRE MURO. ERIK ONESSIMO

NEW YORK STATE POLICE

ERIN FINCH. JESSICA HART

MASSACHUSETTS STATE POLICE CRIME LABORATORY

JOHN MARIO

SUFFOLK COUNTY CRIME LABORATORY

JOSEPH HAWTHORNE

VERMONT FORENSIC LABORATORY

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NEW YORK CITY OFFICE OF CHIEF MEDICAL EXAMINER

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DNA CONFERENCE

2023

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JULY 24-26 2023

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<https://vfl.vermont.gov/conference>

NEAFS UPDATE:**Mixture Interpretation of Touch DNA on Common Burglary-Tools Over Time: An Experimental Approach**

DNA from human subjects, n=11, has been analyzed in this study. Ten sets of three tools with handles made from different materials (carbon steel crowbar, crystalline handle screwdriver, and rubber handle screwdriver) were touched first by the male primary (K) user and then by the ten secondary users at different time frames. The tools were originally cleaned with 10% bleach, 70% ethanol, and distilled water before being placed into a stratalinker for one hour.

The ten secondary users were split into three groups:

- Group 1 secondary user(s) A, B, C
- Group 2 secondary user(s) D, E, F
- Group 3 secondary user(s) G, H, I, J

For example, the primary male user (K) touches group 1 tools at an established time. The specified time for the sake of this example is 8 hours. He touches three tools per user eight hours before the secondary users. Group 1 secondary users touch their designated tool set eight hours later. Both primary and secondary users were instructed to wash their hands one hour before touching tools to eradicate the possibility of extraneous DNA on their hands.

The original time frames were eight hours, one week, one month, two months, and six months. The methodology was the typical extraction, quantification, amplification, and genotype via capillary electrophoresis. The tools were swabbed immediately after the secondary users touched them and then they were taken through the QIAmp DNA Investigator Kit extraction protocol for surface swabs. They were then quantified via SYBR Green PCR Kit, then amplified and genotyped using the Promega GenePrint 10® kit. Many of the samples, once genotyped, showed no DNA, with some giving partial profiles. Since touch DNA deals with such a small

amount, the extensive processes they went through minimized the chances of genotyping the DNA. MicroFLOQ swabs were donated to the school and had been used as regular nylon swabs. The idea was that using them with the entire DNA extraction method could have a better sensitivity to picking up the low levels of DNA.

This method was no longer suitable for the research being done, Copan was contacted and asked about their MicroFLOQ swabs' direct amplification capabilities. They were kind enough to send me swabs and I reworked my entire project. The MicroFLOQ swabs were not verified with the GenePrint 10® kit for direct amplification; however, they assured me that I should still try. Tools were re-cleaned, still using 10% bleach, 70% ethanol, and distilled water, but instead they were autoclaved for one hour instead of using the stratalinker. This was done because the autoclave is significantly larger and can handle all tools simultaneously. The new time frames were one week, one month, and two months. The only secondary user that changed was user F. Now, the tools are still swabbed immediately after the secondary user touches them. This is done by moistening the end of the swab with 1 μL of amplification grade H_2O and then swabbing areas of the tool handle that are most likely to "trap" DNA. Sometimes skin flakes are observed, and so that specific region is swabbed. The swab tip is broken off into PCR tubes, with 10 μL of GenePrint 10® master mix, and the remainder is filled with 15 μL of amplification grade H_2O , giving a total volume of 25 μL . The samples are placed in the thermocycler, and then once complete, they are ready to be genotyped. After the one week time slot, my mentor and I realized that the samples could use a post-PCR clean-up and longer injection time. Once the one week samples were cleaned with the MinElute PCR purification kit and Capillary Electrophoresis was conducted with a 10-second injection as opposed to a 5-second injection, the genotyping results were terrific!

This new method has been working tremendously, and the results being seen are what was hypothesized to happen for the one week and one month time slot. Depending on the tool, some users leave their complete profile, some leave partial profiles, and others still have a male DNA profile present. As the time frame between the primary and secondary user handling the tool widens, the primary user's DNA fluctuates depending on their shedder status and tool type. The last time frame left to genotype is two months. The ABI 3130 has been having capillary issues, and I am at the mercy of when it is repaired. The last aspect of my research will be sitting down and analyzing the data with software like STRmix and determining if anything else needs to be done.

The NEAFS Carol De Forest research grant made this process possible, and the money I was awarded has been put towards three GenePrint 10 amplification kits. Understanding the complexities of touch DNA mixtures may help determine optimal times for when the DNA could have been deposited on a surface. How touch DNA mixtures change over time also has implications in probabilistic genotyping which could impact legal considerations.

Thank you for the opportunity, and if you have any questions, feel free to contact me at swillia@cedarcrest.edu or my mentor Dr. Larry Quarino at laquarin@cedarcrest.edu.



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Proceeds go to the Carol De Forest
Research Grant Fund

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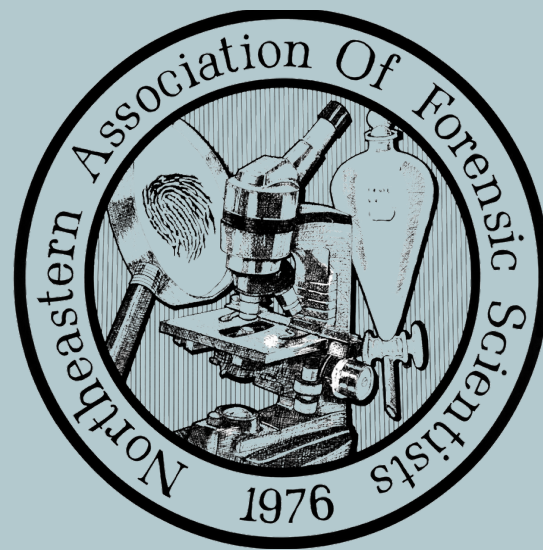
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**NORTHEASTERN
ASSOCIATION OF
FORENSIC SCIENTISTS**

TRAINING SCHOLARSHIP FUND



**OPEN APPLICATION PERIOD
JANUARY 1st to DECEMBER 31st
OF THE CURRENT YEAR**

APPLICATION REQUIREMENTS

The Northeastern Association of Forensic Scientists (NEAFS) is proud to offer its members a Training Scholarship Fund (TSF). Members in good standing are eligible to receive up to \$400 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. For additional instructions, requirements and forms visit the NEAFS website.

<https://www.neafs.org/trainingscholarshipfund>





NORTHEASTERN ASSOCIATION
OF FORENSIC SCIENTISTS

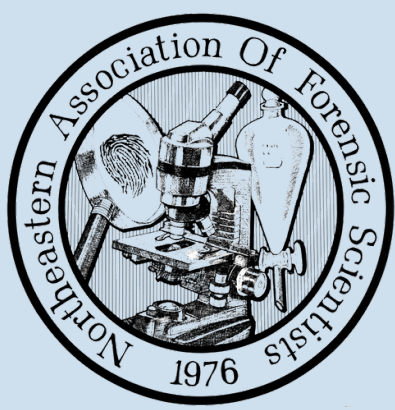
MERITORIOUS
SERVICE AWARD
NOMINATION

THE NORTHEASTERN ASSOCIATION OF FORENSIC SCIENTISTS IS ACCEPTING NOMINATIONS FOR THE MERITORIOUS SERVICE AWARD.

ALL NOMINATIONS MUST BE RECEIVED BY SEPTEMBER 1ST. THE WINNER OF THE NEAFS MERITORIOUS SERVICE AWARD WILL BE ANNOUNCED DURING THE ANNUAL MEETING.

FOR MORE INFORMATION AND REQUIREMENTS VISIT THE NEAFS WEBSITE OR CLICK THE LINK BELOW.

[HTTPS://WWW.NEAFS.ORG/MERITORIOUSSERVICEAWARD](https://www.neafs.org/meritoriousserviceaward)



2024 ANNUAL MEETING

October 21st, 2024 - October 24th, 2024

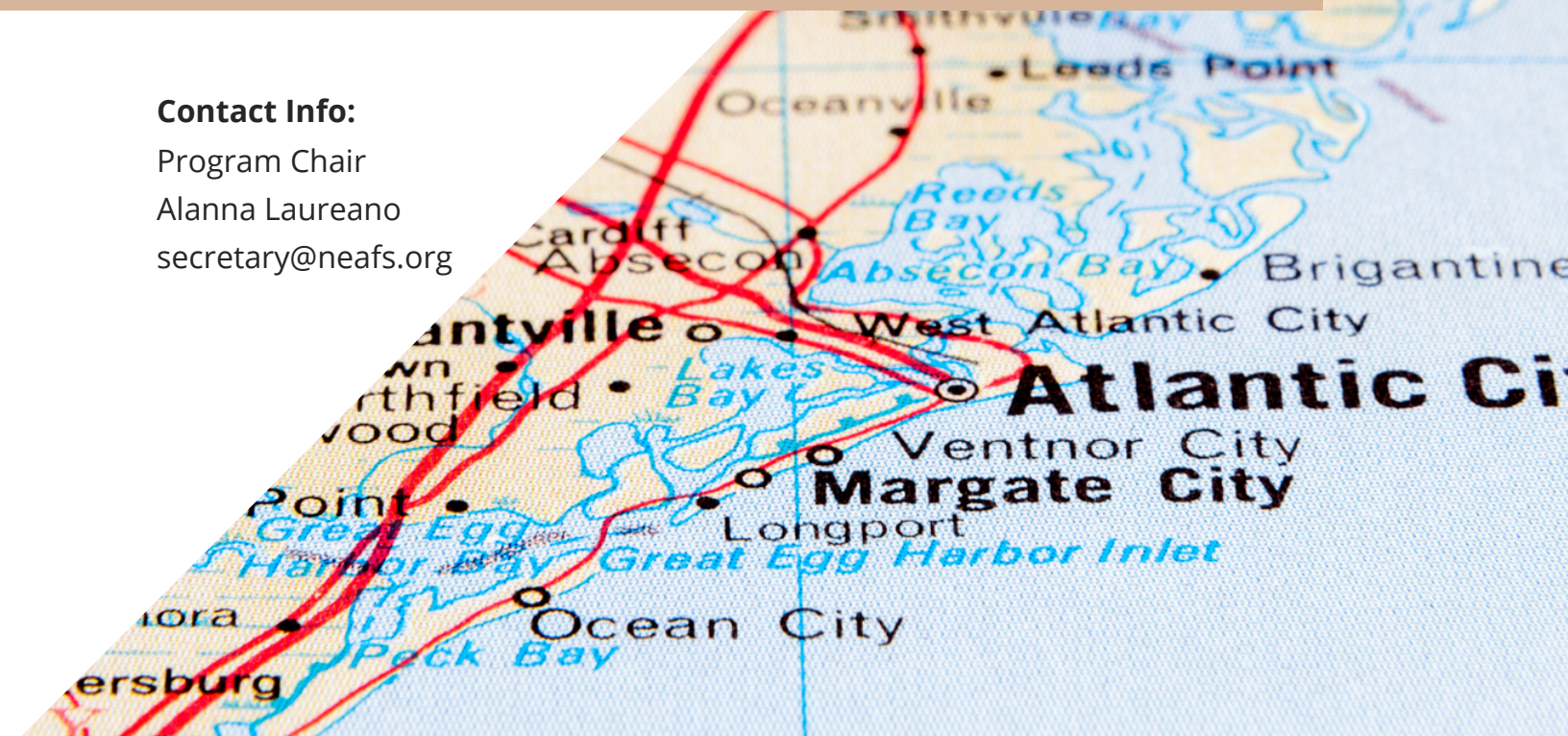
Atlantic City, NJ

Contact Info:

Program Chair

Alanna Laureano

secretary@neafs.org





Employment Application

Personal Information

John

**EMPLOYMENT
OPPORTUNITIES**

UMass Chan Medical School, Worcester MA: Lab Analyst II Lab Analyst II

Under the general supervision of the Manager or designee, the Lab Analyst II performs accurate chemical analysis of evidence submitted by Law Enforcement Agencies while maintaining chain of custody records.

MAJOR RESPONSIBILITIES:

- Maintain accurate record of chain of custody for all cases received during analysis
- Perform analytical analysis of evidence for identification and/or quantitation, records information
- Complete all the necessary paperwork as dictated by department and laboratory policy
- Performs and documents routine maintenance of equipment.
- Participates in the development of new assays, and the evaluation of new equipment.
- Communicates with other Laboratory staff and Law Enforcement Officials. Provides testimony in court, when necessary.
- Advises and aids DAL Evidence Officer on identification, classification, and handling of evidence.
- Perform other duties as assigned.

REQUIRED QUALIFICATIONS:

- B.S. in Chemistry or related degree (requires strong emphasis on Chemistry)
- 1 year relevant laboratory experience
- Oral and written communication skills necessary for interaction with other medical center staff as well as outside agencies
- 20/20 and color vision (corrected), good physical coordination, and ability to move and lift moderately heavy objects

PLEASE APPLY HERE: <https://careers-umms.icims.com/jobs/43699/job>

CORE (Center for Organ Recovery and Education), West Virginia Medical Examiner Liaison

CORE (Center for Organ Recovery and Education) is an Organ Procurement Organization that operates in Western Pennsylvania, West Virginia and New York State. The position of Medical Examiner Liaison for the Center for Organ Recovery & Education (CORE) is one of significant responsibility. They are responsible for being the point of contact at for information needed by CORE from the Medical Examiner's office in which they serve. They will have a thorough knowledge of CORE Policy and Procedures regarding eye recovery, specimen collection and eye packaging. They will perform follow-up visits and education with Funeral Homes and assist with other Funeral Home and Medical Examiner/Coroner issues as assigned. This person reports to the FD/Coroner Liaison and will take direction from the Chief Operation Officer and ultimately the President and CEO.

The Medical Examiner Liaison reports to the FD/Coroner Liaison and will take additional direction from CORE's Administrator On Call and Tissue On Call. When involved in donor activity, the Medical Examiner Liaison works under the direction of the FD/Coroner Liaison, Administrator on Call, the Tissue on Call, and works in conjunction with Donor Referral Coordinators.

Responsible for obtaining information on potential post-mortem organ, tissue and eye donors, primarily from the Medical Examiner's Office. They will make necessary arrangements to begin the donation and/or recovery process. They will need to demonstrate positive interpersonal skills along with strong communication skills. They will be responsible for data entry and transcription. They will need to have sound computer knowledge and application. They will be responsible for knowing, and working within, CORE policies and procedures. They will be responsible for observing and adhering to FDA current Good Tissue Practices and AATB / EBAA standards. They will be responsible for obtaining Autopsy Report Forms from the Medical Examiner's Office. Their additional responsibilities will include but are not limited to developing and conducting education sessions and conducting follow-ups with Funeral Homes and Medical Examiner/Coroner issues as assigned.

The Medical Examiner Liaison must be available to work daylight shifts. The shifts and schedule are determined based on the needs of the organization.

The Incumbent for the position of Medical Examiner Liaison should have some type of medical background, with at least one year of experience in a health-related field. They should hold a degree and/or certificate in one of the following areas; Autopsy Technician, Mortuary Science, or Surgical Technology, or possess skills and experience needed to meet the requirements of this position. They must have strong communication skills and good independent judgment. Strong preference is given to previous experience in an OPO setting. They must have the ability to get along with all types of individuals and should possess excellent verbal communication skills. They must have strong literary skills. They must demonstrate professional commitment and behavior, showing respect to all donors and CORE partners. They should possess experience with sterile technique. They must complete an extensive six (6)-month training period which results in a reasonable outcome. They must demonstrate true support to the donation program. They must be able to lift sixty (60) pounds. They must have a valid driver's license. They must have good manual dexterity and visual acuity.

The degree of job difficulty for the falls into the moderate to high range. Inadvertent errors or mistakes could result in the death of a transplant recipient. Mistakes and misinformation could trigger a variety of misconceptions about donation and cause serious administrative problems for CORE, all of which may negatively influence donation and working relationships with community and hospital partners and our public. This position will require that they be willing to maintain ongoing knowledge and be current with all legislative issues regarding organ and tissue donation.

FDA Forensic Chemistry Center Laboratory Branch Director

The Forensic Chemistry Center (FCC) is FDA's only laboratory dedicated to the forensic analysis of FDA regulated products. FCC's staff consists of talented analytical scientists who excel at creative thinking and problem solving. FCC contributes to FDA's mission to protect public health by performing forensic sample analysis, method development for emerging and novel problems, evaluation of new analytical technologies for regulatory analysis, and analytical response for public health emergencies. FCC is accredited by ANAB for Forensic Testing and is in compliance with ISO/IEC 17025:2017 requirements.

The FCC has an opening for a Branch Director. The Branch Director is responsible for, among other things:

- Providing leadership, guidance, and technical direction necessary for full and effective program accomplishments and the effective utilization of available resources.
- Manages all phases of laboratory analyses assigned to the FCC branch for testing and research to develop and refine methodology used in the analysis of samples and to explore new systems of laboratory analysis.
- Planning and implementing scientific programs, criminal and regulatory analysis, and scientific research associated with the chemical, biological and microbiological examination of regulated products.
- Independently adjusts staffing levels or work procedures within the organizational unit to meet challenges presented by requests for forensic analytical services from other field offices, other FDA Centers, or outside state, federal or local law enforcement entities.
- Identifies new equipment needs and justifies the purchase of new equipment. Often develops new and innovative work methods and procedures used to produce work products.
- Oversees the development of technical data, estimates, statistics, suggestions, and other information useful to higher level managers in determining which goals and objectives to emphasize.
- Performs the administrative and personnel management functions relative to staff supervised.
- Assures that subordinates are trained and fully comply with the provisions of the safety regulations and the Laboratory Quality Assurance Program.

For additional information click [here](#).

To apply for this position at the FCC as a Branch Director, please follow this link: <https://www.usajobs.gov/job/686020200#>

Biological Science Center, North Charleston, SC
Forensic Quality Assurance Manager

The Forensic Quality Assurance Manager is responsible for the implementation, coordination, maintenance and compliance of the Center's quality management system.

Hyperlink: <https://www.governmentjobs.com/careers/charlestoncounty/jobs/4021044/forensic-quality-assurance-manager>

Download flyer [here](#).

Suffolk County Crime Laboratory, Hauppauge, NY
Forensic Scientist I (Biological Sciences)
Salary: approx. \$74,000

The Forensic Scientist will be responsible for the examination of physical evidence, body fluid analysis, performing DNA-STR (autosomal and Y-STR) analysis, interpretation of data with reporting, and testimony as an expert witness at criminal trials. In addition, the duties may include crime scene response.

Applicants should be a currently qualified DNA analyst capable of signing casework reports.

Minimum Qualifications: A Bachelor of Science Degree in Biology, Forensic Science or a closely related field from an accredited college or university; Coursework required by the FBI Quality Assurance Standards For Forensic DNA Testing Laboratories 2020 (Genetics, Molecular Biology, Biochemistry and Statistics); 1) At least 2 years of Forensic Biology casework experience including DNA-STR (autosomal and Y-STR) analysis, and a current casework signing analyst. Experience with probabilistic genotyping is a plus. OR 2) A Master of Science Degree in Biology, Forensic Science or a closely related field from an accredited college or university may be substituted for one year of casework experience including DNA-STR (autosomal and Y-STR) analysis, and a current casework signing analyst. Experience with probabilistic genotyping is a plus.

For more information, use this link: <https://apps2.suffolkcountyny.gov/civilservice/specs/2262spe.html>

Contact by email: karen.galindo@suffolkcountyny.gov

The Phoenix Police Department Laboratory Services Bureau, Phoenix, AZ
Forensic Scientist II - DNA Analyst - \$5,000 Hiring Incentive

Click [here](#) for more information.

Link: <https://www.phoenix.gov/hr/current-jobs>

Sciex (New York, NY)
LC-MS/MS Sales Representative

- Bachelor's degree (B.S./B.A.) In Life Sciences or similar subject area.
- Professional and / or educational experience that provides knowledge and exposure to fundamental theories, principles and concepts of LC/MS/MS Chromatography
- Ability to travel up to 50 % with valid driver's license and work remotely from home office
- Chosen candidate must live near and service the greater NYC area. Relocation can be considered

For more information and to apply please visit: <https://jobs.danaher.com/global/en/job/R1228408/Mass-Spectrometry-Territory-Sales-Executive-greater-NYC>