

NEAFS Newsletter

Volume 47, Issue 2

Summer 2022

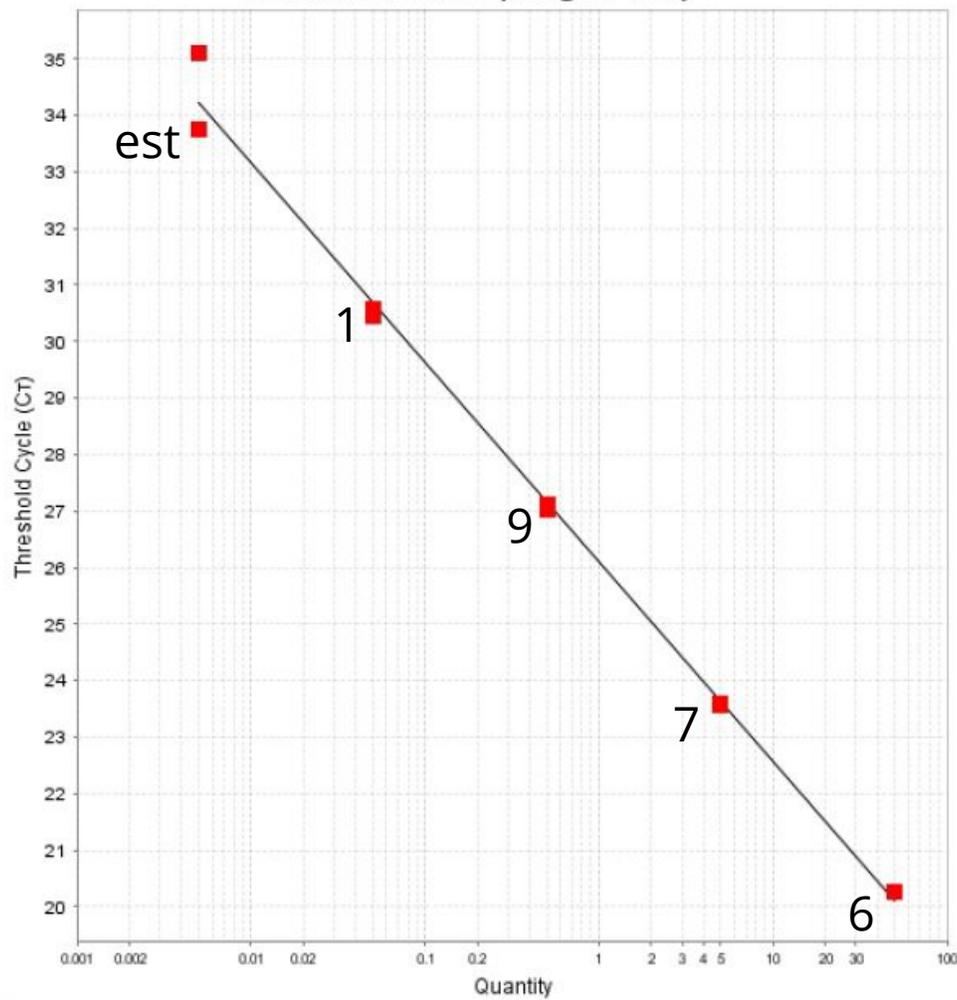
Experiment Results Report NORTHEASTERN ASSOCIATION

Experiment Summary

	O 8 BLANK/Max 100-2 TFC 1 Large aliquot 1 Small aliquot	F 8 BLANK/Max 100-2 TFC 1 Large aliquot 1 Small aliquot	F 10 BLANK/Max 100-2 TFC 1 Large aliquot 1 Small aliquot	O 12 BLANK/Max 100-2 TFC 1 Large aliquot 1 Small aliquot	R 10 BLANK/Max 100-2 TFC 1 Large aliquot 1 Small aliquot	E 14 BLANK/Max 100-2 TFC 1 Large aliquot 1 Small aliquot	N 10 BLANK/Max 100-2 TFC 1 Large aliquot 1 Small aliquot
	S 10 BLANK/Max 100-1 TFC 1 Large aliquot 1 Small aliquot	I 8 BLANK/Max 100-2 TFC 1 Large aliquot 1 Small aliquot	C EN/Max 100 120820 @ 0700 TFC 1 Large aliquot 1 Small aliquot	S AL/Max 100-2 TFC 1 Large aliquot 1 Small aliquot	S 4 BLANK/Max 100-2 TFC 1 Large aliquot 1 Small aliquot	I 8 BLANK/Max 100-2 TFC 1 Large aliquot 1 Small aliquot	E 10 BLANK/Max 100-2 TFC 1 Large aliquot 1 Small aliquot
	N 8 BLANK/Max 100-1 TFC 1 Large aliquot 1 Small aliquot	T 8 BLANK/Max 100-1 TFC 1 Large aliquot 1 Small aliquot	I 10 BLANK/Max 100-1 TFC 1 Large aliquot 1 Small aliquot	S 10 BLANK/Max 100-1 TFC 1 Large aliquot 1 Small aliquot	T 10 BLANK/Max 100-1 TFC 1 Large aliquot 1 Small aliquot	S 10 BLANK/Max 100-1 TFC 1 Large aliquot 1 Small aliquot	A 14 BLANK/Max 100-1 TFC 1 Large aliquot 1 Small aliquot
A	K RT-ATL TFC 1 Large aliquot 1 Small aliquot	A 8 BLANK/Max 100-1 TFC 1 Large aliquot 1 Small aliquot	N EN/Max 100 120820 @ 0715 TFC 1 Large aliquot 1 Small aliquot	N AL/Max 100-1 TFC 1 Large aliquot 1 Small aliquot	E 4 BLANK/Max 100-1 TFC 1 Large aliquot 1 Small aliquot	A 8 BLANK/Max 100-1 TFC 1 Large aliquot 1 Small aliquot	F 8 BLANK/Max 100-1 TFC 1 Large aliquot 1 Small aliquot
B							
C							
D							
E							
F							
G							
H							

Standard Curve

Standard Curve (Target: T.Y)



Board of Directors 2022

President: Adam Hall

Boston University School of Medicine
Biomedical Forensic Sciences Program
72 East Concord Street, Suite R-806
Boston, MA 02118

president@neafs.org

President-Elect: Elizabeth Duval

Massachusetts State Police Crime Lab
124 Acton Street
Maynard, MA 01754

presidenelect@neafs.org

Treasurer: Stephanie Minero

NEAFS Treasurer
PO Box 7795
Hicksville, NY 11802-7795

treasurer@neafs.org

Secretary: Alanna Laureano

PO Box 135
Hawthorne, NY 10532

secretary@neafs.org

Director: Amanda White

PO Box 135
Hawthorne, NY 10532

director1@neafs.org

Director: Matthew Marino

500 Sea Girt Ave.
Sea Girt, NJ 08750

director2@neafs.org

Director: Anisha Paul

PO Box 135
Hawthorne, NY 10532

director3@neafs.org

Staff 2022

Past President: Angela Vialotti

Connecticut Department of Emergency Services and
Public Protection
278 Colony Street
Meriden, CT 06451
pastpresident@neafs.org

Publications Chairperson: Brandi Clark

NEAFS
PO Box 135
Hawthorne, NY 10532
publications@neafs.org

Executive Secretary: Sarah Roseman

Nassau County Office of the Medical Examiner
1194 Prospect Avenue
Westbury, NY 11590
executivesecretary@neafs.org

Awards Chairperson: Danielle Malone

NYC - OCME FBIO
421 E 26 Street
New York, NY 10016
awards@neafs.org

Education Chairperson: Sandra Haddad

Bay Path University
588 Longmeadow St
Longmeadow, MA 01106
education@neafs.org

Ethics Chairperson: Tiffany Ribadeneyra

Nassau County Office of the Medical Examiner
1194 Prospect Avenue
Westbury, NY 11590
ethics@neafs.org

**Registration Chairperson: Beth Saucier
Goodspeed**

Massachusetts State Police Crime Lab
124 Acton Street
Maynard, MA 01754
978-451-3504
registration@neafs.org

Corporate Liaison: Keri LaBelle

Massachusetts State Police Crime Laboratory
124 Acton Street
Maynard MA 01754
exhibits@neafs.org

Membership Chairperson: Joseph Phillips

NEAFS
PO Box 135
Hawthorne, NY 10532
membership@neafs.org

Dues: Angelina Pollen

NEAFS
PO Box 135
Hawthorne, NY 10532
dues@neafs.org

**Social Media Coordinator/ Merchandise
Chairperson: Alyssa Berthiaume**

NEAFS
PO Box 135
Hawthorne, NY 10532
merchandise@neafs.org

Certification Chairperson: Peter Diaczuk

John Jay College, Department of Sciences
524 W 59th street
New York, NY 10019
certification@neafs.org

Site Chairperson: Janine Kishbaugh

Cedar Crest College
100 College Drive
Allentown, PA 18104
610-606-4661
sitechair@neafs.org

Regional Associations Committee Representative:

Lynn Schneeweis
MA State Police Crime Laboratory
124 Acton St.
Maynard, MA 01754
rac@neafs.org



WHEN RESULTS MATTER.



unitedchem.com



MEET THE 2022 BOD

Adam Hall Ph.D., D-ABC - President

Assistant Professor, Biomedical Forensic Sciences Program Department of Anatomy and Neurobiology Boston University School of Medicine

BA in Chemistry - Stonehill College

MS in Chemistry - Northeastern University

PhD in Analytical Chemistry - Northeastern University

Elizabeth Duval – President-elect

Massachusetts State Police Crime Laboratory

Forensic Scientist III

BS Genetics, Texas A&M University

BS in Forensic Science, University of New Haven

Stephanie Minero– Treasurer

Nassau County Office of the Medical Examiner, Division of Forensic Services

Forensic Scientist in the Controlled Substance Analysis Section since 2008

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

Forensic Science Specialist and Assistant DNA Technical Leader

BS in Molecular Biology and Biochemistry- University at Albany, SUNY

MS in Forensic Biology- University at Albany, SUNY

Matthew Marino - Director

New Jersey State Police Office of Forensic Sciences, East Regional Laboratory from November 2011 to present
Forensic Scientist 2 in the Drug Unit and Criminalistics Unit

Westchester County, NY Forensic Laboratory from July 2007 to September 2011

Forensic Technician

BS in Natural Sciences with a concentration in Chemistry-St. Thomas Aquinas College

Amanda White - Director

New York State Police Crime Laboratory, FS II- 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

SYNTHETIC CANNABINOID NPS

DISCOVER CAYMAN'S TOOLS TO IDENTIFY EMERGING THREATS

Cayman provides more than 800 reference standards for synthetic cannabinoids along with online identification tools and resources to help identify and confirm new synthetic cannabinoids emerging on the illicit market.

BROWSE ALL CAYMAN REFERENCE STANDARDS
[CAYMANCHEM.COM/FORENSICS/SEARCH](https://www.caymanchem.com/forensics/search)



BIOMEDICAL RESEARCH
PRODUCTS

CONTRACT
SERVICES

ANALYTICAL
STANDARDS

ACTIVE PHARMACEUTICAL
INGREDIENTS

NEAFS

A Message from President Adam Hall, Ph.D., ABC-FD

Dear Members of the NEAFS Community-

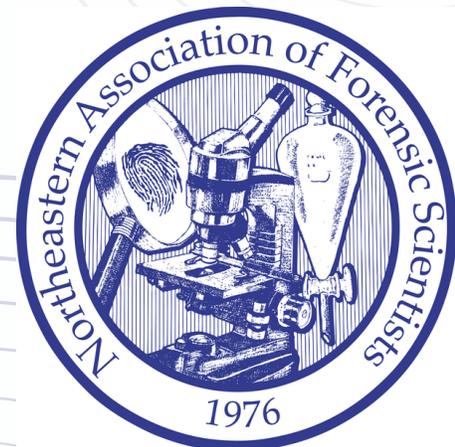
It's hard to believe that we're four short months away from our next annual meeting! It feels like just a couple months ago that we were all in attendance at the 47th annual meeting in Newport, Rhode Island. My time as President thus far has further strengthened my belief that the incredible board of directors and staff of NEAFS give wholeheartedly of their time and efforts and do so on a volunteer basis without complaint. I feel fortunate to be a part of and to contribute NEAFS. There are many operations that go on throughout the year for us to function effectively and to continue to offer top quality scientific meetings at a minimal cost to our membership. Every decision that is made is done so with the membership in mind as we work to further strengthen the tradition of NEAFS since its inception over 45 years ago in 1976.

On behalf of the Board of Directors of the Northeastern Association of Forensic Scientists, we look forward to seeing all of you at the 48th Annual NEAFS Meeting: October 17-21, 2022, in Niagara Falls, New York at the Sheraton Niagara Falls! Niagara Falls State Park is about ½ mile or just over a 10-minute walk from the Sheraton. Registration and the link for hotel reservations is currently open online. Fifty percent off early registration will be given to members and active applicants who submit an abstract before 7/24/22.

Please visit our website at www.neafs.org for more information and please do not hesitate to contact me for any reason: president@neafs.org

Respectfully Submitted,

Adam B. Hall, Ph.D., ABC-FD
President,
Northeastern Association of Forensic Scientists



Is your Lab Looking for a 3D Imaging System for Cartridge Cases & Bullets?

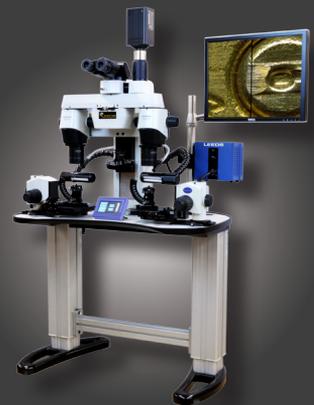
The Evofinder® Automated Ballistic Identifications system provides a unique solution for 3D imaging of both bullets and cartridge cases with a high degree of accuracy and speed as well as providing automatic correlations with statistical analysis. The Evofinder® system is uniquely capable in its ability to capture both pristine and deformed evidence in 3D, quickly and accurately.



The Evofinder® advantages:

1. Internal database – incorporated in system, maintained within its own server.
2. Virtual Comparison Microscopy – Scanned images can be viewed individually or in comparison for virtual examination, including lighting controls, contrast, and 3D position.
3. Portability – the scanner is lightweight and portable, and can be operated on 120v or 12v providing the ability to deploy Evofinder to a crime scene where sample evidence can be entered, correlated and viewed in Virtual Microscopy in minutes.
4. Auto-Comparison – Evofinder® software can automatically provide statistical recommendations of possible matched samples within minutes in addition to possible use as a sorting tool for large sample sets.
5. Speed - Scanning of a 3D image of the side of a bullet (pristine bullet, caliber 9 mm), or the 3D bottom surface of a cartridge case (10 mm diameter) can be completed in less than 3 minutes.

Leeds also offers comparison microscopes including the LCF3 Firearm & Tool Mark Comparison Microscope built with Olympus optics, used to analyze and compare bullets and cartridge cases.



LCF3

NEAFS

A Message from Program Chair Elizabeth “Betsy” Duval

Howdy Ya’ll,

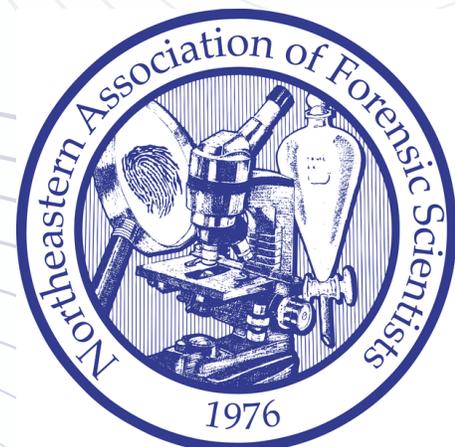
I hope this message finds everyone happy, healthy and with a greater appreciation for the things we may have at one time taken for granted. I know I have. As most of you are aware I’ve been tasked with creating a fun and educational program on a reduced budget this year. I have the concerns of our members sincerely to heart and have been careful to find balance between want and need. As planning progresses, I hope to provide you all with a fantastic conference without sacrificing the utmost quality that our Annual Meeting always strives to achieve. I’m thrilled to already have so many great workshops and wonderful speakers lined up, all at a fabulous venue conducive to learning and networking with fellow colleagues, practitioners, investigators, legal representatives, vendors, educators, and students. And let’s not forget the chance to just take a moment to enjoy and explore the sheer beauty of nature at the Niagara Falls State Park just steps away.

I’m looking forward to seeing you all in Niagara Falls, NY this fall! Registration and the link to make your hotel reservations are open! I encourage you to go to the website and check out all the information available to you. I also encourage you to reach out to colleagues, educators and students of all levels and spread the word.

Personally, I think that the very heart of the organization lies with its members, and I hope I have kept that in mind all along the way. I can’t say how much I appreciate all the immeasurable help and support I’ve received thus far.

It does take a village, but what a fabulous village to be a part of.....

Betsy



THC Quantitation

Forensic Crime Laboratories

Is Your Laboratory Ready?

The Hemp Farming Act of 2018 removes the plant Cannabis Sativa L. from the controlled substances act **“if it or a plant contains no more than 0.3% THC on a dry weight basis”**

Cannabis & Hemp Analyzers

Integrating instrument hardware, three proven HPLC methods, certified standards, and all supplies, these packages are designed for accurate results with minimal effort to quantitate THC.

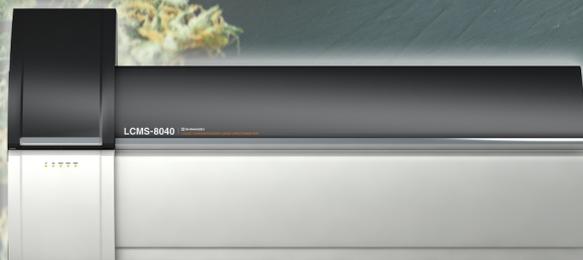


Single Quad LC/MS

The LCMS-2020 can be used in concert with the cannabis or hemp analyzer for confirmation of THC.

Triple Quad LC/MS

An ultra-fast triple quadrupole mass spectrometer, incorporating improved ion optics systems for increased sensitivity.



2022 NEAFS ANNUAL MEETING

October 17th- 21st



MEETING:

THE CONFERENCE AND EVENT CENTER NIAGARA FALLS
101 OLD FALLS STREET
NIAGARA FALLS, NY 14303



HOTEL:

SHERATON NIAGARA FALLS
300 THIRD STREET
NIAGARA FALLS, NY 14303

NIGHTLY RATE:

\$117/NIGHT + FEES
(\$149.53/NIGHT TOTAL)



FOR MORE DETAILS, CONTACT THE PROGRAM CHAIR
ELIZABETH DUVAL AT PRESIDENTELECT@NEAFS.ORG

REGISTRATION

IS NOW OPEN



**REGISTER NOW
EARLY
REGISTRATION
ENDS JULY 31ST**



*register
now!*

NEAFS 2022 ANNUAL MEETING

NEAFS 48th Annual Meeting Call For Papers
October 17th - October 21st, Niagara Falls, NY

Abstract Form can be found on the NEAFS website at
www.neafs.org/callforpapers.

MEMBER or ACTIVE APPLICANT

Receive 50% off of registration up to \$80 (based off of the early registration fee of \$160) if abstract submitted prior to 7/24/22.

Students - Download the Dr. Peter R. De Forest Collegiate Project Competition Judging Guidelines for 2022 at
www.neafs.org/callforpapers.



NEAFS is Calling
Paper and Poster Submissions
are now being accepted.

Deadline: September 2, 2022



Accept



2022 Annual Meeting

NEAFS

October 17th-21st, 2022

[RESERVE NOW](#)

Room Rate Per Night Total \$149.53
includes taxes, amenities fee and parking

If you would like to get in some site seeing time, the hotel will be honoring the book rate for the weekend prior to the start of the meeting (October 15th and 16th). If interested, please mention in your reservation request.

2022 Annual Meeting

NEAFS

October 17th-21st, 2022

Why is it important to book in the block?

NEAFS has secured a room block and is providing discounted rates to NEAFS 2022 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.

- While we know you may be able to find cheaper accommodations elsewhere, we have partnered with this hotel to secure the lowest possible rates *along with all of their meeting space* and give our attendees amenities such as having free in-room WiFi.
- You will help keep future Annual Meetings affordable for everyone!
- The majority of our attendees stay at an official NEAFS hotel, and you never know who you might meet in the lobby. Don't miss out on this opportunity to easily network with friends, colleagues, and representatives of exhibiting companies by staying in the hotels they are staying in so your paths will cross organically.

How am I affected when people book outside the block?

If NEAFS is not able to meet the guaranteed number of room nights booked in the block because attendees make reservations at other hotels, or at other accommodation options (such as Airbnb), or cancel/shorten their length of stay at the NEAFS hotels, then our overall room night performance is hurt. NEAFS is then exposed to significant penalties for not fulfilling our room block commitments. Should this happen, NEAFS could be forced to:

1. Increase registration and exhibition fees to cover these expenses
2. Cut back on services provided at the event such as meals, receptions, speaker support, attendee activities, and complimentary wireless internet access in key areas.
3. Risks NEAFS's ability to rebook at preferred hotels and receive discounted rates in other cities, meaning hotel rates could also increase at future meetings.
4. Finally, our ability to meet our guaranteed hotel performance could mean we do not qualify for the amount of convention center space we need at future meetings.

PLEASE DO YOUR PART TO MAINTAIN THE QUALITY OF FUTURE MEETINGS.

2022 Preliminary Meeting Schedule

SUBJECT TO CHANGE

DAY	TIME	SCHEDULE
MONDAY	3:00pm – 5:00pm	BOD/Staff Outing
OCTOBER 17TH	3:00pm – 6:00pm	Part One: Facial Approximation Workshop (pre-registered only)
	7:00pm – 10:00pm	BOD/Staff Dinner
TUESDAY	7:00am – 8:30am	Registration
OCTOBER 18TH	7:00am – 8:30am	Breakfast
	8:00am – 4:30pm	Workshops
	12:00pm – 1:00pm	Lunch (on your own)
	12:30pm – 1:30pm	Registration
	2:30pm – 5:30pm	Exhibitor Set-up
	5:00pm – 7:00pm	Pre-Welcome Reception (Food Trucks)
	7:00pm – 9:00pm	Registration
WEDNESDAY	7:30am – 9:00am	Breakfast
OCTOBER 19TH	7:30am – 9:30am	Registration
	7:30am – 8:00pm	Exhibits
	9:00am – 5:00pm	Scientific Sessions:
	12:00pm – 1:30pm	Annual Business Lunch
	5:30pm – 7:30pm	Welcome Reception/Poster Session
	7:00pm – 8:00PM	Registration
	8:00pm – 10:00pm	Evening Session
THURSDAY	7:00am – 8:30am	Breakfast
OCTOBER 20TH	7:00am – 9:30am	Registration
	7:30am – 11:00am	Exhibits
	9:00am – 12:00pm	Morning General Plenary Session (panel)
	12:00pm – 2:00pm	President's Luncheon
	2:30pm – 5:30pm	Afternoon General Plenary Session (John M. Collins)
	6:30pm – 11:30 pm	President's Reception (Halloween themed)
FRIDAY	8:00am – 9:30am	Breakfast
OCTOBER 21ST	8:00am – 9:00am	Registration
	9:00am – 12:00pm	ABC Exam
	9:00am – 11:00am	Educators Forum
	11:00am – 12:00pm	George W. Chin Cup

John Collins

Afternoon General Plenary Session

John Collins is an executive leadership coach specializing in working with people, teams, and organizations in positions of public trust. He started his private practice in 2013 after retiring his award-winning, 20-year career in forensic science, having served as the director of forensic science for the State of Michigan. He is also the author of three books on leadership, professionalism, and public policy in forensic science. As a facilitator, John's range of experience is unmatched, having facilitated corporate strategy retreats, as well as highly sensitive domestic and international meetings on behalf of the United States Government. John's career highlights include his part in the forensic investigation of the Atlanta serial bombings, which included the bombing of the 1996 Olympics in Atlanta (for which he received a commendation from the Department of the Treasury), as well as his 2013 participation in a historic meeting with Attorney General Eric Holder and other experts to discuss solutions to gun violence following the Sandy Hook Elementary School shooting.

In his practice, John combines principles of executive coaching and leadership education with forensic analytical methods that quickly and accurately identify opportunities for his clients to improve their professional effectiveness.

John has a master's degree in Organizational Management and is formally certified as a senior HR professional by the Society for Human Resource Management (SHRM). In 2012, John was trained as a professional coach by the College of Executive Coaching, and he became certified as a Gallup Strengths Coach in 2022. He lives and works near Detroit.



Sergeant Matthew Koehler

Using Forensic Science to solve Cold Case Homicides

Evening Session

Sergeant Matthew Koehler has a Bachelor of Science degree from the University of New Hampshire. He has over 22 years of investigative experience with the New Hampshire State Police and has been a member of the Major Crime Unit since 2011. He has worked on a multitude of active and historic homicides throughout his career. He was assigned as Commander of the NH Cold Case Unit in 2018, and manages the 130 unsolved homicide, and missing person cases, designated by the New Hampshire Attorney General's Office.



WANT TO ATTEND ONE OF THE NEAFS ANNUAL MEETING WORKSHOPS BUT CAN'T MAKE THE NEAFS ANNUAL MEETING?

NO PROBLEM, THESE WORKSHOPS WILL BE ABAILABLE VIRTUALLY

ADVANCED TOPICS IN FORENSIC DNA ABC EXAMINATION PREPARATION

***IF YOU ARE REGISTERING FOR ONE OF THE VIRTUAL WORKSHOPS, YOU DO NOT NEED TO REGISTER FOR THE MEETING. YOU SHOULD ONLY REGISTER AND PAY FOR THE WORKSHOP.**





Workshops

OCTOBER 17TH - 18TH

DAY AND A HALF

MEMBER \$80, NON-MEMBER \$120, STUDENT \$50, STUDENT NON-MEMBER \$70

FACIAL RECONSTRUCTION

TUESDAY, OCTOBER 18TH

FULL DAY

MEMBER \$60, NON-MEMBER \$100, STUDENT \$40, STUDENT NON-MEMBER \$60

ADVANCED TOPICS IN FORENSIC DNA*

ABC EXAMINATION PREPARATION*

GC/MASS SPEC

FIELDABLE ANALYTICAL DETECTION TECHNOLOGIES

***THESE WORKSHOPS WILL BE HYBRID**



Workshops

TUESDAY, OCTOBER 18TH

HALF DAY

MEMBER \$30, NON-MEMBER \$50, STUDENT \$20, STUDENT NON-MEMBER \$30

ETHICS WORKSHOP

HALF DAY

**MEMBER \$30, NON-MEMBER \$50,
STUDENT AND STUDENT NON-MEMBER FREE**

STUDENT WORKSHOP

Day and a Half Workshop

Monday, October 17th: 3:00 - 6:00

Tuesday, October 18th: 8:00 - 4:30

Constructing a Face: Forensic Facial Approximation

MEMBER \$80, NON-MEMBER \$120, STUDENT \$50,
STUDENT NON-MEMBER \$80

Instructor
Jenny Kenyon

Supplies and tools will be provided, and no prior facial reconstruction experience or art skill is needed.



Join Forensic Artist Jenny Kenyon for a multi-day workshop in Forensic Facial Approximation. This workshop will be broken down into two parts. On Monday, we will meet for 3 hours to cover anthropological assessments of gender, age, ancestry and build using a 3D print of a skull. We will also cover the differences between the Manchester, Russian and American methods of facial approximation. On Tuesday, we will work on creating the muscles out of clay, fitting it to the architecture of the skull and adding skin and soft tissues to reconstruct/approximate the individual over the course of the day.

The Manchester/British method was developed by Richard Neave in 1977 and is the most accepted method for facial reconstruction/approximation today. This method has been used in many famous reconstructions including Phillip II of Macedon, Johann Sebastian Bach, Saint Nicholas, Robert the Bruce, and King Richard III.

Jenny Kenyon is both a Forensic Artist and Costume & Scenic Designer for Theatre. She received her BFA in Studio Art from SAIC, an MFA in Theatre Design from Brandeis University, and a MSc in Forensic Art from University of Dundee, Scotland. Her specialties include virtual and clay 3D Facial Reconstructions from skeletal remains and CAD based 3D reconstructions of Heritage and burial sites. Her other skills include Age Progression & Regression, Witness Interviewing Techniques, Composite Sketching, Forensic Photography, and Cranio-Facial Superimposition. Her archaeological facial reconstructions have been featured in exhibits in Europe, the UK and the US. She also works creating illustrations for scientific research, with police departments providing faces for unidentified human remains, and teaching forensic art & photography at Penn State University. She has recently started working at the FBI Lab in Quantico Virginia and is creating facial approximations, age progressions, and court presentations for the FBI.



Full Day Workshop

Tuesday, October 18th: 8:00 - 4:30

ADVANCED TOPICS IN FORENSIC BIOLOGY AND DNA*
MEMBER \$60, NON-MEMBER \$100, STUDENT \$40,
STUDENT NON-MEMBER \$60

*This workshop will be hybrid

Workshop will explore the latest topics in DNA sponsored by Thermo Fisher

An Overview of the Connecticut Rapid DNA Program

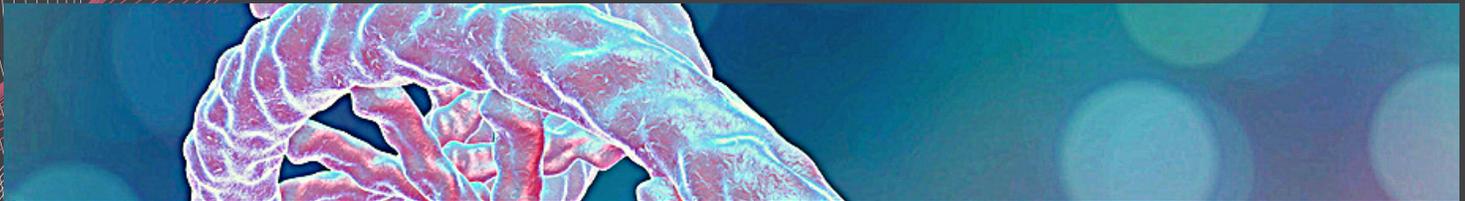
Chery Carreiro

Chery Carreiro began her forensic career at the Connecticut Division of Scientific Services in 2007. In addition to overseeing the laboratory operation, as the Assistant Director of the Forensic Science Laboratory, Cheryl oversees grants, contracts, and a very busy Rapid DNA program. With nearly 14 years of casework experience as a DNA analyst, Cheryl co-developed Connecticut's first Rapid DNA program for use on crime scene samples. Cheryl holds a B.S in Biology, minor Chemistry from Fairfield University and a M.S. in Forensic Science with a concentration in Criminalistics from the University of New Haven.

Analyzing Workflow Changes to Incorporate New Technology

Ryan Gallagher

Ryan Gallagher is the Criminalistics Unit Manager at the Philadelphia Police Department's Office of Forensic Science, where he is responsible for the daily operations of the laboratory that processes all of the DNA cases for the City of Philadelphia. He earned a bachelor's degree in Molecular Biology from Temple University and a master's degree in Forensic Science from Arcadia University. He began his career in forensics with the Philadelphia Police Department in 2006. For more than ten years, he worked in the Criminalistics Unit processing hundreds of cases that involved the identification of biological fluids and/or ignitable liquids. For the past five years, Mr. Gallagher has overseen the operations of the Criminalistics Unit.



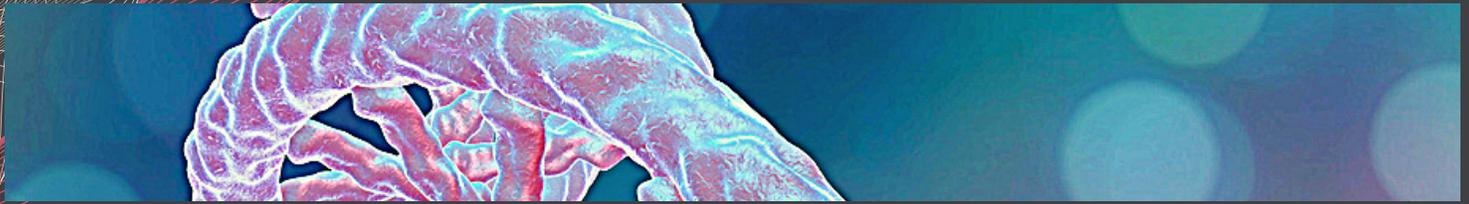
The Development & Implementation of Best Practices and Standards for using Forensic Genetic Genealogy in Criminal Investigations

Since its inception in 2018, Forensic Genetic Genealogy (FGG) has become one of the fastest-growing new investigatory tools to be implemented into criminal investigations. The speed of this implementation has been alarming, yet its success and impact in resolving cold cases cannot be denied. As with all new methods, tools, and techniques, it is critical that robust procedures, best practices, and standards for their use are developed and implemented. With FGG, its use has become widespread across the United States, yet there exists only minimal guidance and policy surrounding it. Critics of the use of FGG have raised concerns over genetic privacy, individual privacy, and informed consent, to name a few. Members of the law enforcement/forensic science community that have been hesitant to embrace this new tool have cited the lack of guidance, understanding of legal implications, and defined set of procedures for using it as a concern. Therefore, it is necessary that robust best practices and standards are developed for using this investigatory tool, with a focus on balancing the best interests of the public in terms of both protecting their safety and protecting their privacy. It is essential that all stakeholders are given the opportunity to provide input in the development of national best practices and standards, which must include not only legal experts and policymakers, but also ethics and privacy experts, forensic practitioners, and those with in-depth knowledge and expertise in carrying out the many steps involved in a thorough FGG investigation. Over the last 30+ years, Forensic DNA (STR) analysis has become the gold standard of forensic science. This was and still is, achieved through methodical diligence, robust practices, and constant revision and oversight. The same is now required for FGG in order to cement its credibility within the industry, and also to sustain, even grow, its use in investigations. This workshop will discuss a comprehensive set of recommendations for best practices and standards for the use of FGG in criminal investigations, with a proposed mechanism for their implementation.

Dr. Glynn previously worked as a forensic scientist at Eurofins Forensic Services (formerly named LGC Forensics) in Oxfordshire, England. Eurofins Forensic Services is one of the United Kingdom's leading forensic science providers for the UK's police forces. Dr. Glynn worked in the forensic biology department, within the homicide and sexual assaults team, which has investigated some of the UK's most high-profile crimes.

Dr. Glynn, who joined the University of New Haven in 2014, teaches both undergraduate and graduate courses in forensic science, focused on forensic biology, forensic DNA analysis, and Forensic Genetic Genealogy (FGG). Her research interests are focused on FGG, and a broad range of applications for this novel investigatory tool. This includes investigating the effects of degraded samples and novel technologies, establishing best practices, the international feasibility of this tool, historical applications, and ethical considerations, to name just a few. Her other research interests include Rapid DNA analysis, RNA (mRNA and miRNA) analysis, Single Nucleotide Polymorphism (SNPs) applications, and DNA Methylation markers.

Dr. Glynn is the founding Director of the University of New Haven's online Graduate Certificate in Forensic Genetic Genealogy, and she actively consults and provides subject matter expertise on the topic to law enforcement agencies, both nationally and internationally.



The Application of The Skin Virome for Human Identification

Emma H Graham

I received dual B.S degrees in Forensic Science and Biology and a M.S. in Cellular and Molecular Biology from the University of New Haven. Currently I am a NIJ Graduate Research Fellow and a Doctoral Candidate in the Complex Biosystems program at the University of Nebraska - Lincoln studying the human skin virome and viral host interactions. My doctoral research is on the human skin virome's (viral microbiome) diversity, stability and individualization. We have found that there are viral taxa that are specific to certain individuals and remain stable over long periods of time. Hence, we decided to investigate the skin virome for viral biomarker development for human identification purposes. Here is a link to the paper, the application of the skin virome for human identification, we just published in ISFG on this work [<https://doi.org/10.1016/j.fsigen.2022.102662>]. In total we identified 59 viral biomarkers that were stable across 6 months spanning three anatomical skin locations (left & right hand, and scalp). Profiles of presence and absence of these viral biomarkers were different across 42 individuals and can be used to differentiate one individual from another. These markers are great candidate markers that can be used in conjunction with other pre-established microbial biomarkers for human identification for instances where statistically relevant human STR profiles are not viable.

The Validation of Massively Parallel Sequencing for Mitochondrial Casework (mitoMPS) at NYC OCME

Validation of a new technology for casework is an involved process that often does not follow expected paths. While the framework of requirements for validation are readily available, there are often unforeseen challenges. We will review the process of validation for mitochondrial massively parallel sequencing (MPS) used by the NYC Office of Chief Medical Examiner to highlight different approaches, and offer recommendations to other labs considering validation of a new technology.

Jonathan S. Kui

Jonathan S. Kui is a Crimalist IV at the NYC Office of Chief Medical Examiner, in the Department of Forensic Biology. He is a post-conviction case coordinator for the laboratory, and was a Validation Lead for mitochondrial massively parallel sequencing (MPS). He has been a casework analyst since joining the laboratory in 2008, and a supervisor since 2014.

Full Day Workshop

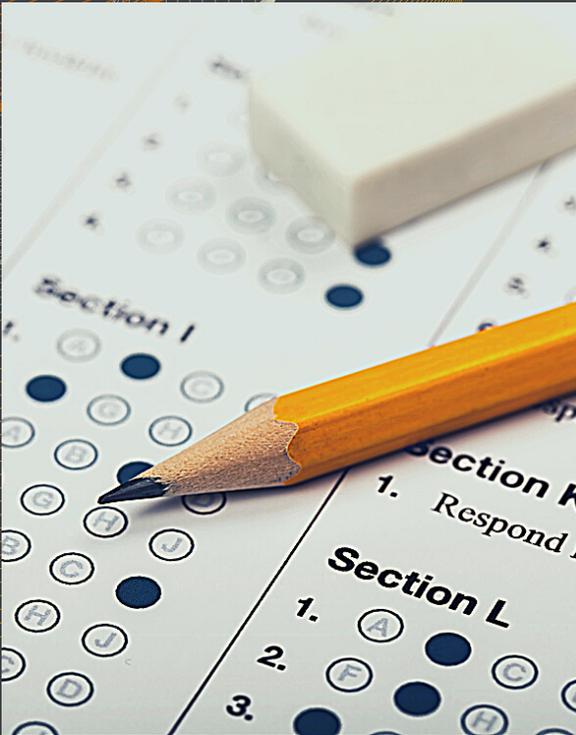
Tuesday, October 18th: 8:00 - 4:30

ABC EXAMINATION PREPARATION*

MEMBER \$60, NON-MEMBER \$100, STUDENT \$40,
STUDENT NON-MEMBER \$60

Instructor
Tiffany Roy MSFS

*This workshop will be hybrid



This workshop involves lectures and discussion in preparation for the American Board of Criminalistics (ABC) certification examinations. The workshop is directed at forensic practitioners to assist them in focusing their study for certification examinations. The workshop will focus on ABC exam preparation strategies including timeline, study guides, resources, and discussion of the general exam categories across all specialties (legal, quality, common KSA's). The morning workshop will consist of ABC specific exam preparation using the ABC study guides for the Comprehensive Criminalistics exam. The afternoon will include a "mock examination" for the participants to test their current knowledge and identify weak areas for further study.

Tiffany Roy MSFS, JD is a Forensic DNA expert with over fifteen years of forensic biology experience in both public and private laboratories in the United States. 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 and Southern New Hampshire University. She currently acts as a consultant for attorneys and the media in the area of forensic biology through her firm, ForensicAid. Roy holds degrees from Syracuse University, Massachusetts School of Law and University of Florida in the areas of Biology, Law and Forensic Science. She 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 Molecular Biology by the American Board of Criminalistics.



Full Day Workshop

Tuesday, October 18th: 8:00 - 4:30

GCMS Fundamentals of Troubleshooting and Maintenance

MEMBER \$60, NON-MEMBER \$100, STUDENT \$40,
STUDENT NON-MEMBER \$60

Instructors

Agilent Technologies

Kirk Lokits, GCMS Applications Scientist

Rachael Ciotti, GCMS Applications Scientist

Eric Pavlich, GC Chemistries and Supplies Application
Scientist

The GCMS workshop will focus on the fundamental aspects of operational theory, troubleshooting, and maintenance of GC (Split/Splitless) inlets, FID detectors, and MS EI sources. Column selection and inlet and flow path troubleshooting, and maintenance will be discussed. The workshop format will be PowerPoint based but will have hands on labs involving split/splitless inlet modules, FID modules, and MS EI sources.

Gas Chromatography Basics

- Column Science
- How a GC column separates mixtures

Inlet and Detector Designs

- Split/Splitless (S/S)
- Septum and Inlet Liners
- Flame Ionization (FID) optional-class dependent

Mass Spectrometry Basics

- Theory of Quadrupole applied to Single Quadrupole, Triple Quadrupole, and Time-of-Flight
- Tuning and Evaluating a Single Quadrupole System
- Acquisition Parameters (optimizing your data quality)

Maintenance and Troubleshooting

Agenda

GC Basics, Inlet & Detector Designs (Lecture)
Hands-on Inlet Maintenance Lab
Hands-on FID Detector Maintenance Lab
Mass Spectrometry Basics (Lecture)
Hands-on Source Maintenance Lab

Kirk E. Lokits

Agilent Technologies

GCMS Applications Scientist

Kirk received his B.S. in Forensic Science and Chemistry from Eastern Kentucky University, under Dr. Robert Fraas and began working as a Forensic Drug Chemist in the Miami Valley Regional Crime Laboratory in Dayton, Ohio. He then moved to Orlando, Florida where he worked as a Forensic Toxicologist for the Florida Department of Law Enforcement in the Orlando Regional Crime Laboratory and later as Crime Analyst Supervisor in the Pensacola Regional Crime Laboratory. Kirk left the forensic realm and began his tenure with Hewlett Packard/Agilent Technologies, working as a Customer Service Engineer (CE) supporting the LC, GC, LCMS, GCMS, and ICPMS products. While working for HP Kirk earned his M.S. in Analytical Chemistry from Middle Tennessee State University, under Dr. Gale Clark and in 2005 Kirk left Agilent Technologies to attend the University of Cincinnati and earned his Ph.D. in Analytical Chemistry under Dr. Joseph A. Caruso. After receiving his Ph.D., Kirk worked for the Midwest Research Institute (MRIGlobal) in Kansas City, MO where he worked as a Principal Chemist and Sr. Program Manager on Department of Defense projects, staffing, designing, and building remote laboratories for placement throughout the world. In 2014, Kirk re-joined Agilent Technologies as a GCMS Applications Scientist focusing on forensic applications within the GCMS product line.

Rachael Ciotti

Agilent Technologies

GCMS Application Scientist

Rachael Ciotti is a GCMS Applications Scientist, focusing primarily on environmental applications using single and triple quadrupole GCMS. She joined Agilent in 2014 as a field service engineer installing, maintaining, and repairing Agilent GCMS systems, followed by a short tenure as a product manager for GC Supplies before returning to the lab. Prior to joining Agilent, Rachael worked at DuPont as an applications chemist responsible for GC, GCMS and LC/MS/MS method development and transfer for fluorochemicals and environmental pollutants. She has a Bachelor of Arts in Mathematics from Rutgers University.

Eric Pavlich

Agilent Technologies

GC Chemistries and Supplies Application Scientist

Eric is a graduate from the University of Arkansas. He started his career as a microbiologist for a pharmaceutical manufacturer and eventually migrated to more analytical chemistry techniques in dealing with polymer research and cosmetics. In 2003, Eric joined Varian Analytical in as an Account Manager. When Agilent acquired Varian in 2010, Eric took on the role of Application Scientist where he assists those in need of GC Application help. Along with helping analysts optimize their methods, Eric also helps educate those that are trying to expand their knowledge in Gas Chromatography.





Full Day Workshop

Tuesday, October 18th: 8:00 - 4:30

Field Analytical Detections Technologies

MEMBER \$60, NON-MEMBER \$100, STUDENT \$40,
STUDENT NON-MEMBER \$60

Instructors

Chris Brown - 908 Devices

Michael Hargreaves - Rigaku

David Schiering - Redwave Tech

Kevin Jarboe - Teledyne

Fieldable Analytical Detection & Identification Technologies - FTIR, Raman, HP-MS, and GC-MS

Advancements in miniaturizing technology has brought traditional chemical instrumentation used for forensic analyses from the crime lab and into the hands of first responders and law enforcement professionals. Techniques such as colorimetric tests, Raman, infrared spectroscopy, and mass spectrometry are being ruggedized, miniaturized, and simplified so non-scientists can perform preliminary analyses on-scene. When utilized effectively, field detection reduces exposures to harmful materials, identifies probative samples, thus reducing backlogs, and provides real-time intelligence to focus investigative resources. In the laboratory, these devices are being used perform rapid screens to help guide analysis.

It's important for case-working analysts to become familiar with tools used by officers in the field to help guide and validate their use and have a firm understanding of the capabilities and limitations of field analysis tools. This workshop will introduce devices used by law enforcement to screen for controlled substances, explosives, and other harmful materials. Attendees will learn about the technological advances that allowed for the miniaturization of instrumentation, and how they're used in the field through a mixture of case studies, hands-on interaction, and demonstrations.

Agenda

Technical presentations:

908 Devices – 45 mins presentation – 15 mins Q&A

RedWave - 45 mins presentation – 15 mins Q&A

Rigaku - 45 mins presentation – 15 mins Q&A

Teledyne/FLIR - 45 mins presentation – 15 mins Q&A

Afternoon – hands on stations – 2h

30 min rotation between each technology

Portable FTIR Spectroscopy for In-Field Forensics

Dave Schiering (Redwave Technology)

Dr. David W. Schiering is a founder and the Chief Technology Officer of RedWave Technology, a private company that develops and markets vibrational spectroscopy products for in-field chemical defense. Dr. Schiering has many years of experience in the chemical instrumentation field. He has held numerous scientific and management roles in technology and product development and has been previously employed by Smiths Detection, SensIR Technologies, Thermo Electron Corp., and Perkin Elmer. Dr. Schiering has written many publications on various aspects of vibrational spectroscopy. He earned a PhD in analytical chemistry from Miami University, where he is also an adjunct Assistant Professor of Chemistry. Dr. Schiering has served the Coblenz Society as a member of the Board of Managers and as secretary from 1991 to 2010. In 2011, Dr. Schiering was made an Honorary Member of the Coblenz Society and in 2018 received a Society of Applied Spectroscopy Fellows award.

Key learning points:

- Introduction to portable FTIR spectroscopy instrumentation and methods
- Where does FTIR spectroscopy fit in the overall threat response?
- What are the strengths and weaknesses of FTIR spectroscopy for in-field forensics?
- The chemical threat space – the 'sweet spots' for FTIR spectroscopic analyses
- Application of FTIR Spectroscopy in the identification of chemicals - drugs, explosives, toxics - in the field

Key Takeaways from the talk:

- The specificity of IR absorption spectroscopy makes FTIR an indispensable method for in-field chemical analyses.
- The reduction of size, weight, and power and the hardening of FTIR spectrometers have made FTIR spectroscopy well suited for use austere environments.
- Technological advances in electronics, optics, and materials have made portable FTIR spectroscopy possible and have altered the trajectory of laboratory instrumentation as well.
- Advances in software and methods have made FTIR spectroscopy useful to responders in the field.
- FTIR spectroscopy can provide threat assessments on samples in any physical state – solid, liquid, and vapor.
- Sample preparation methods can extend the FTIR limit of identification into the trace regime.



Luisa Profeta (Rigaku Analytical Devices)

Luisa Profeta, Ph.D., PMP, has been actively engaged in the defense and security industry, specializing in customer education and utilization of spectroscopic solutions for field analysis. Most of her past customers include various government agencies including, but not limited to, RDECOM, CTTSO and DTRA. Dr. Profeta has also led customer efforts on Reachback analysis, with 365/24/7 rapid turnaround time for critical customer data analysis, orchestrating the building of extensive libraries for customer fielded equipment for SSE, and taking emerging technologies and adapting them to fieldable demands.

Mike Hargreaves (Rigaku Analytical Devices)

Dr. Michael Hargreaves is currently VP Engineering at Rigaku Analytical Devices, a company that develops handheld Raman devices, used for chemical identification applications. He has over 15 years' experience in developing chemical identification devices. He has held several scientific and management roles in technology and product development and has previously worked for Cobalt (now Agilent), Ahura Scientific and Thermo Scientific. He has travelled extensively, working with many different end-users to refine and develop new capabilities. He has written many papers and several book chapters on the field of chemical identification using Raman & FTIR. He earned a Ph.D. from Nottingham University and holds chartered Chemist & Scientist status in the UK.

Key learning points (complimentary to other presentations):

- Introduction to handheld Raman spectroscopy instrumentation
- Where does Raman spectroscopy fit in the toolbox and how does it compare vs other technologies
 - What are the strengths and weaknesses of Raman spectroscopy?
- Application of Raman Spectroscopy to the identification of chemicals - drugs, explosives, etc in the field



Using Portable GCMS for In-Field Chemical Identification

Kevin Jarboe (Teledyne FLIR)

Kevin Jarboe is a Technical Account Manager for Teledyne FLIR supporting customer's CBRNE detection needs. He has over 12 years direct field experience with various detection equipment including GCMS, FTIR, PCR, radiological / isotope monitoring, etc. Over the years, Kevin has worked as an SME for numerous environmental response groups supporting first responders and federal agencies tasked with the identification of unknown substances (i.e., white powders, etc.) both inside and outside of the laboratory setting. He also specializes in critical infrastructure protection using portable and traditional benchtop type instrumentation. Kevin earned a BS in chemistry from George Mason University and an MS in biochemistry from the University of Maryland. During his time at Lockheed Martin, he also gained a lean-sigma six greenbelt that enabled him to streamline deployment processes for CBRNE instrumentation. Throughout his time with Leidos, Lockheed Martin and CSC (now GDIT), Kevin supported many government programs / customers including DoD, EPA and DoE (Oakridge National Laboratory) in addition to state and local agencies. With most of his career being a hands-on "end user", Kevin has a deep understanding and appreciation of real-world customer needs as it relates to CBRNE detection and protection.

Rakesh Patel (Teledyne FLIR)

Rakesh Patel is the Product Manager for Detection at Teledyne FLIR. Rakesh is based out of West Lafayette, IN. He has over 20 years of experience working with GC/MS instrumentation. Rakesh started his career in 1999 at the Office of Indiana State Chemist (OISC) which is located on the campus of Purdue University. He was there for 10 years where he worked with feed and fertilizer analysis for 5 years. He then moved into the Pesticide Residue lab which used GC/MS instrumentation for the analysis of pesticides in soil, vegetation, and other media. In 2011 an opportunity came up to work at FLIR in the R&D group using his GC/MS experience, for explosives detection. After about 6 years in the R&D group he was offered a position in the service group as a Field Service Support/Engineer. He supported the G510 and was the primary trainer for the Griffin line of instruments. 2 ½ years later he was offered the role of Product manager for detection.

Key learning points:

- Introduction to GCMS instrumentation and methodology
- Where does GCMS fit in responder's toolbox / comparison to other portable analytical instrumentation?
- What are the strengths and weaknesses of portable GCMS?
- Applications of mobile GCMS in the identification of drugs/narcotics, CWAs, TICS, etc.

Key Takeaways from the talk:

- The specificity of GCMS combined with the power of NIST makes "gold standard" laboratory quality data possible in the field.
- The reduction of size, weight, power and advancements in computing have made portable GCMS well suited to mobile applications.
- GCMS can provide class-leading assessment of complex mixtures in any phase of matter (i.e., solid, liquid or air).
- Various sample preparation methods can further enhance end-user flexibility on how to introduce samples for analysis.



Field Applications of High Pressure Mass Spectrometry (HPMS)

David A. Godin is the Director of Field Forensic Applications for 908 Devices in Boston, Massachusetts. He holds a Masters of Forensic Sciences Degree from Boston University, and a B.S. degree in Chemistry from the United States Military Academy. Mr. Godin served five years as a US Army Chemical Officer in the 110th Chemical Battalion, Technical Escort. During that time, he served as Chemical Analyst and Officer in Charge of the Combined Explosive Exploitation Cell-North in support of Operation Iraqi Freedom. He has trained hundreds of Emergency Response personnel in the field analysis of controlled substances, HAZMAT Operations, and CBRNE Response.

Jessamyn W. Chmura, ABC-CC, is the Lead Forensic Chemist with 908 Devices in Boston, MA. Ms. Chmura obtained her Masters of Science in Biomedical Forensic Sciences from Boston University and her Bachelors of Science in Biochemistry from Central Connecticut State University. Jessamyn began her career in forensics in the Boston Police Crime Lab in the Criminalist and Trace Evidence Sections. As an Applications Scientist with 908 Devices, she supports operations and investigations across the world with real-time data analysis and technical expertise.

Key learning points:

- Introduction to HPMS instrumentation and technology
- Algorithmic detection of fentanyl analogs using mass spec
- The application of “trace chemical evidence” to the investigatory process
- Field analysis of controlled substance case studies.

Key Takeaways from the talk:

- Advances in high pressure mass spectrometry allow for the operation of ion traps at nearly atmospheric pressure
- Reduction in size, weight, and power requirement allow for mass spec to be leveraged in the field for real time analysis.
- Utilizing a combination of analytical techniques at point of contact with unknown materials provides responders and law enforcement real time, actionable intelligence to conduct operations safely and efficiently.





Half Day Workshop

Tuesday, October 18th: 8:00 - 12:00

Ethics in Forensic Science

MEMBER \$30, NON-MEMBER \$50, STUDENT \$20,
STUDENT NON-MEMBER \$30

Instructor
Dr. Robin Bowen

Ethics is an understudied, yet significant topic when it comes to the field of forensic science. Although people may think of ethics as a personal matter, it also includes professional and public issues. Proper ethical behavior is required by scientists making complex decisions about the interpretation of data, about which problems to pursue, and about when to conclude an experiment, all which help to improve the quality of forensic science.

While the workshop includes many “basics,” the course relates those ideas to the forensic science profession. To understand forensic-specific ethics, it is important to look at the interactions between the cultures of science, law, research, and law enforcement.

Upon completion of this course, the student will be able to:

- Demonstrate the relationship between science, technology, and society in ethics
- Examine the various types of conflicts and the problems they may create
- Analyze what ethical standards are in place for forensic scientists and related professions
- Evaluate how codes of ethics in science may contradict other professions
- Defend how and why unethical situations occur
- Analyze when and how to report misconduct and associated consequences

Attendees are given the opportunity to interact and discuss ethical situations that have taken place within the forensic science community. Attendees will be presented with scenarios and the ethical considerations involved with each. The attendees will provide insight from their work environments and represent the “real-world” of ethics in forensic science. Participants should be open to discuss and debate, while keeping an open-mind and a positive environment.



Ethics

Robin Bowen is a Teaching Assistant Professor and FIS Minor Coordinator with the Department of Forensic Science at West Virginia University. Bowen is the author of *Ethics and the Practice of Forensic Science*, *The Significance of Ethical Practices in Forensic Science* in the *Encyclopedia of Forensic Sciences*, and various chapters on ethics in forensic science. She has participated as an advisory member of the Outreach and Communication Interagency Working Group (IWG) under the National Science and Technology Council Subcommittee (NSTC) on Forensic Science and as a member of the Editorial Advisory Board for the revised edition of *Encyclopedia of Forensic Sciences*. Bowen is the primary developer of the Forensic Educational Alliance, an initiative to offer a variety of forensic science continuing education online courses. She has an undergraduate degree in Forensic and Investigative Sciences, a graduate degree in Secondary Science Education, and a doctorate in Instructional Design and Technology.

Tentative Agenda

8:00 – 8:30am

Opening/Welcome/Introductions

8:30 – 10am

Ethics foundation

Law Enforcement

Judicial System

Expert Witness Considerations

10 – 10:15am

Break

10:15 – 11:45

Forensic Science

Misconduct

Conflicts of Interest: Codes and Reporting

Half Day Workshop

Tuesday, October 18th: 1:00 - 4:30

Student Workshop

MEMBER \$30, NON-MEMBER \$50, STUDENT (free),
STUDENT NON-MEMBER (free)

Instructors

Anisha Paul

Andrea Belec-Lajoy

Chris Chany



Learn the crucial techniques needed for networking, interviewing and so much more, to prepare you for your career in Forensic Science!

Andrea Belec Lajoy

With over thirty years of experience in analytical chemistry, Andrea Belec is currently working as the Lab Operations Director for Champlain Toxicology Lab in Plattsburgh, NY. She received her introduction to forensic toxicology while working with laboratory automation and sample prep applications for Zymark Corporation. Andrea further developed her skills with Sciex and later Waters Corporation. In 2003, she took the plunge leaving industry and spent nearly a decade at the New York State Police Forensic Investigation Center's Toxicology Unit in Albany, NY. In late 2012, Andrea was offered an opportunity to build a startup drug screening lab in Burlington, VT into a full-service urine toxicology lab. Over the course of four years, she built it from a five-person screening lab to a company of 180 employees, fifty five of whom were in the lab. Andrea left Burlington Labs in 2016 to transform a two-person Physician Office Lab in Plattsburgh, NY into an accredited urine toxicology reference lab. Champlain Toxicology has a strong client base in Pain Management and Addiction/Recovery testing and also serves as the toxicology lab for the largest hospital system in northern NY and Vermont.

A native of Long Island, Andrea is a former NEAFS President and also a member of the Society of Forensic Toxicologists. She resides in northern Vermont on an island in the middle of Lake Champlain with her husband, Scott, their dog and two cats who think they are dogs. Andrea can be found camping (ok, really glamping) from May through October with a knitting project always nearby.

Chris Chany

Starting at the Westchester Co Forensic Lab on October 3, 1977 as a Drug chemist, Chris spent 29 1/2 years performing chemical analyses on Drugs, fire debris, gunshot residue distance determination, gunshot primer residue, paint, tear gas, explosives, and general unknowns. In March of 2007 he became Lab Director of the Yonkers PD Forensic Science Lab. After overseeing their transition from ASCLD-LAB Legacy to International (ISO 17025) accreditation, he retired and moved to Texas where he started his second career as a Gunshot Primer Residue analyst for the Texas Department of Public Safety Crime Laboratory in Austin, Texas. He, along with the late George W. Chin, started the student forum at the 2004 Annual Meeting in Mystic CT.



NEAFS 2022 ANNUAL MEETING

Food Truck

PRE-WELCOME
RECEPTION



October 18th, 2022

In need of a professional head shot?

Perkin Elmer and NEAFS have you covered.

All you need to bring is the right outfit and your smile!



NEAFS 2022 Annual Meeting

HALLOWEEN THEME PRESIDENT'S RECEPTION

Halloween is coming soon
And you're invited to join us
Whether you park your broom or wear a mask
dress up and come, that's all we ask!

THURSDAY | OCTOBER 20 | 630-11PM
THE CONFERENCE & EVENT CENTER

Costumes are strongly encouraged.

WILLIAM FULD Talking Board Set

YES

OUIJA

REG. U.S. PAT. OFF.

MYSTIFYING ORACLE
REG. U.S. PAT. OFF.

NO



WILL YOU

ATTEND?

SIGNS POINT TO YES!



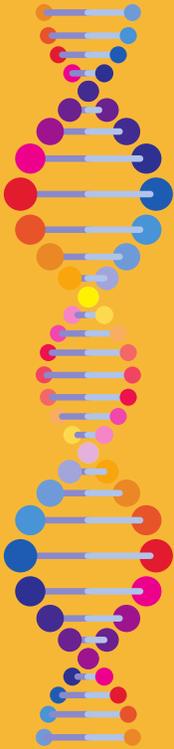
GOOD BYE

"OUIJA", "WILLIAM FULD", "MYSTIFYING ORACLE" AND THE DISTINCTIVE DESIGN OF THE PACKAGE ARE TRADE MARKS FOR THE TALKING BOARD SETS OF

PARKER BROTHERS INC., SALEM, MASS. U.S.A.

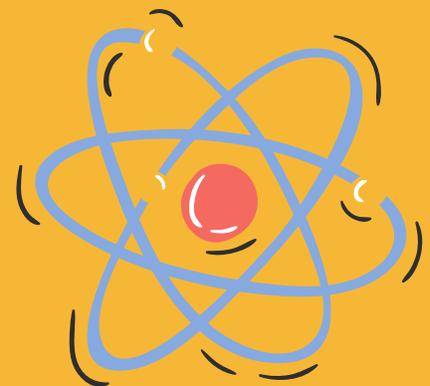


GEORGE
W. CHIN
COLLEGIATE
CUP



FRIDAY
10/21
11AM-12PM

GET YOUR
TEAM
READY



NEAFS 2022 ANNUAL MEETING EDUCATORS' FORUM

NEAFS is soliciting 20-30 min presentations for this year's Forum.

Share with fellow educators a presentation about what you've been doing in the classroom, in your program, for your students.

Trying something new that's working for you? Tried something that provided a "seemed like a good idea" lesson?

We want to hear from you!

[Click to Present!](#)

FRIDAY 10/21
9AM - 12PM

Interested in becoming certified?

The ABC examination will be offered at the NEAFS Annual Meeting on October 21, 2022.

In order to take the examination, visit <https://www.criminalistics.com/> to submit your application by August 8th, 2022.

The American Board of Criminalistics currently offers examinations in the following areas of certification:

Biological Evidence Screening (ABC-BIO)

Comprehensive Criminalistics (ABC-CC)

Drug Analysis (ABC-DA)

Forensic DNA (ABC-DNA)

Molecular Biology (ABC-MB)

Fire Debris Analysis (ABC-FD)

Hair and Fiber (ABC-HF)

Paint and Polymer (ABC-PP)

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 2022. 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.

The following are current examinations that are offered: Comprehensive Criminalistics Examination (CCE)
Drug Analysis (DA)
Molecular Biology (MB)
Fire Debris Analysis (FD)
Hairs and Fibers (HF)
Paints and Polymers (PP)

For more information about the examination sitting, please contact Peter Diaczuk at certification@neafs.org.

For more information about the examination and the American Board of Criminalistics, please visit <http://www.criminalistics.com>.

2022 ANNUAL MEETING

NIAGARA FALLS THINGS TO DO!

We are so excited you will be joining us in Niagara Falls for this year's meeting! We hope you take advantage that all this area has to offer while attending the meeting, and maybe even extend your stay a little bit!



NIAGARA FALLS FIREWORKS & ILLUMINATION

A new nightly illumination display, "Inspired by Nature," will showcase colors and movements found in nature, including sunrise, aurora borealis, rainbow and sunset; this is part of the regular nightly illumination of the Falls. The five-minute lighting display will play three times on the half hour, beginning at 9:30 each evening, with additional displays at 10:30, 11:30, and 12:30 a.m.

<https://www.niagarafallsusa.com/niagara-falls-state-park/illumination-fireworks/>

MAID OF THE MIST

A favorite Niagara Falls State Park attraction for more than 150 years, the Maid of the Mist journey begins at the Observation Tower, where guests are given a souvenir rain poncho to wear and board the double-deck Maid of the Mist tour boat. From there, the boat ferries past the base of the American Falls, and onto the basin of Horseshoe Falls--the dramatic passage leading you through the roiling waterfall whitewater and massive rock formations. The Maid of the Mist returns guests to shore with newfound appreciation of the power and grandeur of Niagara Falls.

<https://www.maidofthemist.com/>



NIAGARA FALLS STATE PARK

America's oldest state park, open 365 days a year, 24 hours a day, brings you closer than you ever thought possible to the grandeur of the Falls.

Changing leaves, long walks and hiking trails galore conspire to make fall a stunning time to visit Niagara Falls, New York. Ride the Niagara Scenic Trolley for a historical overview of this Frederick Law Olmsted-designed park, or explore its scenic terrain and stunning views by foot. All trails are flat and accessible for beginners, with self-guided tours and professionally led outings offering many choices. A helicopter ride provides an incredible aerial view of the Falls and the park's foliage.

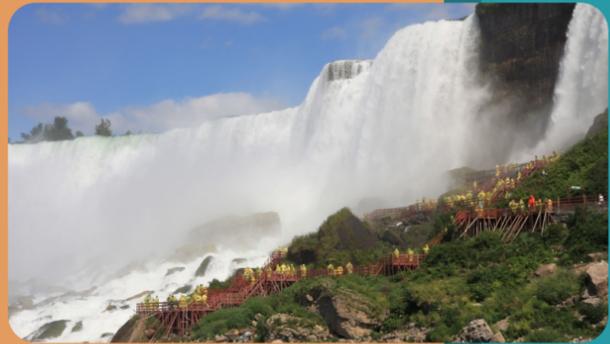
<https://www.niagarafallsstatepark.com/>



CAVE OF THE WINDS & THE WORLD CHANGED HERE PAVILION

Learn how Nikola Tesla harnessed the power of the Falls to create alternating current, experience what Niagara Falls looked like before it was a park and witness why people from around the globe have been drawn to the edge of the Falls for hundreds of years as you travel through The World Changed Here Pavilion. Then check out the "Hurricane Deck" where you are within feet of the crashing Bridal Veil Falls and surrounded by tropical storm like conditions-even on the calmest of days. Don't worry they dress you for the occasion!

<https://www.niagarafallsstatepark.com/attractions-and-tours>



RAINBOW AIR INC.

Helicopter tours above and around the American and Canadian Falls. View the majestic power and beauty of the Falls from the air! Rainbow Air is proud to have served the Niagara Region since 1995. Located conveniently downtown, within walking distance to the Niagara Falls State Park.



<https://rainbowairinc.com/>



BUTTERFLY CONSERVATORY

Step inside one of the largest glass-enclosed butterfly conservatories in North America and discover a tropical garden oasis. The Niagara Parks Butterfly Conservatory features over 2,000 vibrantly coloured butterflies fluttering freely throughout winding pathways adorned with lush vegetation and trickling waterfalls.

Make your way through 180 metres of meandering pathways surrounded by towering tropical plants and gorgeous blooms. This tropical oasis is yours to explore! You'll find feeding trays where butterflies gather for an up-close look, specially curated blooms that attract these fascinating creatures, and a picturesque waterfall creating a virtual rain forest atmosphere. Located on the Canadian side of the Falls!

<https://www.niagaraparks.com/visit/attractions/butterfly-conservatory/>

THE BEAR'S DEN

Located inside of the Seneca Niagara casino the Bear's Den is an amazing venue for live entertainment! They feature the best in Niagara Falls entertainment with world-famous performers, jaw-dropping shows, must-see concerts, and the region's best live bands.

Visit
https://senecaniagaracasino.com/entertainment/for/upcoming_events/



SENECA NIAGARA CASINO

Guests staying at the Sheraton Niagara Falls receive exclusive access to a tunnel straight into the casino!

With ten restaurants, seven shops, more than 2,500 slots, and over 80 table games, live poker, keno, a full-service spa, superstar entertainment, and exciting nightlife, Seneca Niagara is consistently rated as a must-see Niagara Falls casino.

<https://senecaniagaracasino.com/>



THE PANIC ROOM NIAGARA NY

Up for a challenge? Try one of the many escape rooms at The Panic Room. In each game, your team has 60 minutes to escape. Before the game starts, you'll be provided with everything you need to know so don't panic! Only \$27 per person!

<https://thepanicroomniagara.com/>

FORT NIAGARA

Old Fort Niagara offers you a chance to step back in time to an era when great empires struggled for control of North America. You'll visit original 18th century buildings, enjoy incredible views and take part in exciting living history programs. The Fort's Visitor Center offers you introductory exhibits filled with original artifacts and an award-winning 16-minute orientation film. Don't miss the Fort's original War of 1812 Flag.

Inside the Fort, you'll tour original buildings where Native American, French, British and American soldiers lived and worked from the 18th to the 20th centuries. During the summer months you'll witness musket and artillery firing demonstrations, go on a guided tour, see artisans at work and learn about life on the Niagara Frontier during the 18th and early 19th centuries.

<https://www.oldfortniagara.org/>



BREWERIES & WINERIES

The Sheraton Niagara is in the middle of the Niagara Wine Trail and such is close to several wineries and breweries too!

For a list of local breweries visit

<https://www.niagarafallsusa.com/restaurants/niagara-breweries-cideries/>



AND SO MUCH
MORE!

<https://www.niagarafallsusa.com>

BELLA ROSE VINEYARD TASTING ROOM

Bella Rose Vineyard & Winery now has a tasting room located on Old Falls Street in Downtown Niagara Falls. As a sister store to the main location in Lewiston, the tasting room invites all who share a love and passion for the different varieties of locally grown, produced, and bottled wines to come taste the very best the region has to offer. The tasting room is located on Old Falls Street and the corner of 3rd Street between Starbucks and RainForest Cafe in Niagara Falls, USA.

<http://bellarosewinery.com/>

Offerings include:
-beer and wine flights
-pints of beer and glasses of wine
-growlers of beer
-bottles of wine
-local made snacks





Northeastern Association of Forensic Scientists Meritorious Service Award Nomination Form

The Northeastern Association of Forensic Scientists is accepting nominations for the Meritorious Service Award.

This award is given to a NEAFS member that has a history of providing commendable service to the forensic science community by serving justice through casework, performing research advancing forensic science, training and educating forensic scientists and future forensic scientists, and overall contributions to the NEAFS organization. The nominee must have held the status of Regular Member within NEAFS for at least 10 years to be considered.

All nominations must be received by September 1st. The winner of the NEAFS Meritorious Service Award will be announced during the annual meeting.

The Nomination Form can be found on the NEAFS website www.neafs.org.



ATTENTION 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. (Connecticut, Rhode Island, Massachusetts, New Hampshire, Vermont, Maine, New Jersey, New York, and Pennsylvania)?

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 2020 Awards recipients will be notified no later than September 1st.

For more information and Scholarship/Research Grant forms please go to <http://www.neafs.org/>

Questions or comments? Please email Awards@NEAFS.org

THE GEORGE W. CHIN MEMORIAL SCHOLARSHIP

NEAFS and the Chin Family



On September 22, 2016, NEAFS lost one of the pioneers of the Association. George had a passion for forensic science and as a self-appointed “God of Trace Evidence”, he liked to share his knowledge and mentor the younger generation. George was one of the co-founders of the Student Forum at NEAFS, where he would teach students about the realities of a job in forensic science. In addition to NEAFS, he was also a life member of the New Jersey Association of Forensic Scientists (NJAFS), a charter member of the American Society of Trace Evidence Examiners (ASTEE), and a member of the American Academy of Forensic Sciences (AAFS) and the New Jersey Homicide Investigators Association (NJHIA).

A graduate of John Jay College of Criminal Justice – City University of New York (CUNY), his professional career spanned 36 years with the New Jersey State Police. When George first started in March of 1980, he was briefly assigned to the Equine Laboratory at the Meadowlands, but quickly transitioned to a position at the North Regional Laboratory, where he was able to grow his love for all things Trace Evidence. George loved his work and helped to educate students about our field. He would routinely take his own time to go and lecture to high schools and attend their career fairs. In addition, George has mentored numerous interns over the course of his career, many of whom have him to thank for their current employment!

George’s graciousness was felt by all who came into contact with him and his passing leaves a huge void in the forensic community and in our hearts.

George’s family has graciously set up this Memorial Scholarship fund in his memory and honor.

THE GEORGE W. CHIN MEMORIAL SCHOLARSHIP

Eligibility requirements for the George W. Chin Memorial Scholarship:

- Currently enrolled in a Forensic Science program
- Full-time undergraduate students in their junior or senior year
- Full or part-time graduate students (limited to first two years for PhD students)
- The student must demonstrate excellence in his/her academic program.

Application requirements:

- Two letters of recommendation (each accompanied with the recommendation form) from Professors involved in the Forensic Science curriculum.
- A letter from the student describing his/her personal aspirations in the Forensics field, achievements and reasons for award consideration. (Minimum of 250 words - maximum of 500 words). This must be provided to the Professors submitting the recommendation letters.
- Applicants should be attending college/university within the area from which the Northeastern Association of Forensic Scientists draws its members (Maine, New Hampshire, Vermont, Rhode Island, Massachusetts, New York, Connecticut, New Jersey, and Pennsylvania).
- Most current academic transcripts.
- Application requirements must be emailed by **April 30th**. Out of fairness to all potential candidates, no exceptions will be made.

Interested candidates should submit the above requirements electronically in a single PDF titled (GWC_Last name_First name_Grad) OR (GWC_Last name_First name_Undergrad) when filling out the application.

THE GEORGE W. CHIN MEMORIAL SCHOLARSHIP



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 or in your first two years of your Ph.D. Forensic Science program? Do you attend a college or university within the area from which NEAFS draws its members (CT, NY, NJ, PA, VT, NH, ME, RI, MA)? Do you demonstrate excellence in your academic program?

If Yes, you are eligible to apply for the George W. Chin Memorial Scholarship!

The award is \$2000.00 as well as Associate membership for one year in the NEAFS organization. Membership will be granted to a current member or active applicant as well as a non-member (the application fee will also be included).

All submission materials for the Memorial Scholarship must be completed and electronically submitted by April 30. The award recipients will be notified no later than September 1.

For more information and to obtain the application forms, go to <http://www.neafs.org>

If you have any questions please email: awards@neafs.org

SAVE THE DATE!

2023 NEAFS Annual Meeting

November 6th-10th

Mystic Marriott Hotel & Spa in Groton, CT



Want to get involved? *(You know you do!)*

Contact Stephanie Minero treasurer@neafs.org

*Visit neafs.org
under the
merchandise
tab!*



**GET YOUR
NEAFS GEAR!**



NORTHEASTERN ASSOCIATION OF FORENSIC SCIENTISTS

2022 TRAINING SCHOLARSHIP FUND

OPEN APPLICATION PERIOD: JANUARY 1st, 2022 DECEMBER 31st, 2022

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. 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 the Awards Chair** at NEAFS and is being reviewed. 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.

All application materials can be found on the NEAFS website.

Historical facts – NEAFS

- “NEAFS was founded in 1975 by a group of dedicated forensic scientists dedicated to improving the professional status and technical capabilities of individuals engaged in all phases of forensic science.” “To accomplish its goals, NEAFS conducts continuing education seminars featuring workshops and special training sessions. The Annual Meeting...presents a contagious atmosphere of scientific exchange and social congeniality.” Mark Lewis, President 1980
- The first Editor of the newsletter in 1976 was R.E. Gaensslen
- The first meeting of the Executive Board was on May 1, 1976 by President Angelo Fatta. Also in attendance were Vincent Crispino, R.E. Gaensslen, Thomas Kubic, Carl Moller and Alexander Stirton.
 - On this first meeting, it was stated that there were 211 members and this number included applicants. Six of those members were upgraded to Regular members.
 - The first annual meeting was being discussed. The annual meeting was to be a one day meeting on or about October 23, 1976. Tentative sites were John Jay College or C.W. Post College. The schedule was: 8am-12pm Coffee and Registration, business meeting and split sessions; Lunch; 1pm-5pm two general interest talks, split sessions, mixer and dinner. The split sessions included serology, microscopy, arson, toxicology and drug identification. The general interest talks would be short and would be concerning aspects of forensic science that would be unfamiliar or unusual to most members.
- NEAFS was incorporated by the State of Connecticut on May 12, 1976. Vincent Crispino, Thomas Kubic and Henry Lee were the Incorporators.
- The NEAFS newsletters were published by the Forensic Sciences Foundation which was located in Maryland.
- A joint meeting was held on April 15-16 with MAAFS in New Jersey as well as the Annual Meeting of NEAFS on October 29th in 1977.
- Dr. Peter De Forest chaired the Hairs and Fibers Session during the Second Annual Meeting. Alexander Stirton chaired the Serology Session and Dr. Jesse Bidanset chaired the Toxicology Session during the Second Annual Meeting.
- The newsletters included information from other regional organizations as well as NEAFS.
- In 1977, the BOD acted as an ad hoc Education Committee and set up two courses intitled: “Forensic Microscopy” and “Introduction to the Forensic Applications of Infrared Spectroscopy”.
- A luncheon was held during the 3rd Annual meeting of NEAFS and consisted of salad, a choice of roast beef or filet of sole, dessert and a beverage for \$6.00. Cocktails were \$1.50 and beer and wine were \$1.00.
- In 1978, the annual meeting was increased to a two day program instead of one day.
- George Neighbor volunteered to chair the Paint analysis program for the 1978 Annual Meeting.
- In 1978, NEAFS sponsored a training course entitled “Basic Bloodstain Analysis” and it was taught by Dr. Henry Lee, Dr. R.E. Gaensslen and Dr. Peter De Forest. This course was held at the University of New Haven.
- George W. Neighbor was the Secretary of NEAFS in 1978.
- Thomas A. Kubic was voted in as a Life Member of NEAFS while he was President in 1978.
- In 1979, Chris Chany was approved to become a Provisional member from a student member and Peter Diaczuk was approved to be a Corresponding member.
- George W. Neighbor was President-elect in 1980.
- Travel reimbursement for mileage was 17 cents/mile in 1980.
- NEAFS had 400 members in 1980.
- In May 1980 in Louisville Kentucky, NEAFS participated in the first multi-regional association meeting.
- George W. Neighbor had a BA degree in Chemistry from Rider College and a MS in Forensic Science from John Jay College. He worked as a Principal Forensic Chemist for the NJSP in the North Regional Laboratory in Little Falls, NJ where he supervises the trace evidence and bio-chemical units. Prior to working with the NJSP, He has

twenty years of industrial research experience in materials analysis. He served as Secretary for two terms (1978-79) and was a member of the AAFS and the Forensic Science Academy. George became President of NEAFS in 1981 – the 7th year in NEAFS history. George stated at the end of his President’s message in the March 1981 newsletter “Now you can call me George, or you can call me G.W., or you can call me George W., or you can call me Hi Neighbor”. In 1989, George presented “Trace Evidence Never Grows Old” during the Criminalistics Session.

- In 1997, the Scholarship award was renamed the George W. Neighbor Jr. Memorial Scholarship
- In 1980, the Annual Meeting budget was \$2000.
- 1980 Goals of NEAFS
 - Exchange ideas and information among professionals in the field
 - Promote recognition of forensic science as an important part of the justice system
 - Sponsor and organize seminars, workshops, and special training sessions
 - Represent the membership on national issues affecting forensic science
 - Encourage research and development
 - Stimulate implementation of new methods and techniques
 - Establish professional standards
 - Provide advice on educational curricula, legislation and other matters affecting the profession
 - Arbitrate professional disputes
 - Foster friendship and collegiality among the forensic scientists of the Northeast
- For the 10th Annual Meeting, the room rate was \$55 (single or double).
- The 12th annual meeting was the first meeting held in New England in Peabody, MA. A clam bake was scheduled.
- The door prizes that were given out at the 11th Annual Meeting were a Commodore 64 Computer, Cannon AE1 Camera, Reflecting Telescope and an AM-FM radio.
- Our current method of visiting the exhibitor booths and obtaining confirmation of the visit goes back to at least the 9th Annual Meeting in 1983.
- The door prizes given out at the 14th Annual Meeting which was donated by Perkin-Elmer were a Video Cassette Recorder, Compact Disk Player, Scientific Programmable Calculator, Cordless Telephone and a Sony Walkman.