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ASTEE

July 2019

ASTEE Newsletter

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Message from the President

Is it July already!?! This has been a busy 6 months for ASTEE, giving thanks and celebrating our 10 year anniversary!

Allyson Karr expertly crafted two separate ASTEE receptions – the first in February at the AAFS meeting in Baltimore, and the second in May at the joint SAFS/ASTEE meeting in Asheville. The Inter/Micro meeting in Chicago in June was the third opportunity for

members to mingle through our continued sponsorship of Reggie's Trivia Night. These events not only provided an opportunity for our members to make contacts and exchange ideas, but also offered a chance to recognize a few who have made significant contributions to ASTEE's success.

ASTEE's first Meritorious Service Award was presented in Asheville to Paul Martin from CRAIC Technologies. Paul provided critical support to ASTEE during its initial years, insisted on gathering members, and has been an unswerving supporter and sponsor of ASTEE for the past 10 years! The second Meritorious Service Award was presented in Chicago to Gary Laughlin from the McCrone Research Institute. Gary's meaningful contributions include, to name just a few: offering a training course for our Professional Development Award that allows for the education and growth of our members; the working arrangement between JASTEE and *The Microscope*, which enabled a number of JASTEE issues to be released that were otherwise short of articles; and most recently donating publications as a prize for our 10-year anniversary drawing. Both Meritorious Service Award recipients were presented with plaques to express our many thanks and immeasurable gratitude for their continued commitment to ASTEE. See page 15 for pictures of the award presentations.



Message from the President continued...

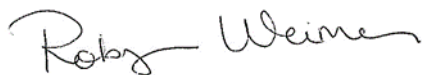
A recent sponsor addition has opened a new ASTEE award – The Hooke College of Applied Sciences Training Award. Through this award, members can obtain more training, education, and networking opportunities. If you haven't already, be sure to apply to Darrel Hall, the Awards Committee Chair, by July 15th. We look forward to a meaningful relationship with Hooke College and the benefits gleaned by future award winners.

The challenge coin was released in February; the coin is just one way to show off your pride as an ASTEE member. Behind the scenes, the Board of Directors have also been working on a new T-shirt design. When this shirt is ready, the plan is to release it along with the original ASTEE shirt as well as an option for embroidered ASTEE logo polo shirts. Information on shirt purchases will be disseminated soon.

As a thank you to ASTEE members and in celebration of ASTEE's 10-year anniversary, a drawing was held at the SAFS/ASTEE joint meeting in May. The drawing was a big success, and ASTEE members received many great prizes. We are working on collecting pictures of the winners with their respective prizes, but see page 9 for a list of who won what.

New awards, new swag, and...<drumroll please>...a new website! Daniel Mabel, the Communications Committee Chair, and a small group of members have been testing the new site and working out all the kinks. We are excited for this change and can't wait to share it with you.

While there may be questions about where ASTEE is going in the future (e.g., will there be a Trace Evidence Symposium in 2020? what will the drawing prizes be for our 20 year anniversary!?!), one thing is for sure – summer has arrived and the end of 2019 will be here before you know it. So here's to wishing you a happy summer that's filled with lots of sun, fun, and adventure! Cheers!



Robyn Weimer

robyn.weimer@dfs.virginia.gov

2019 ASTEE President

Important Dates

July 9 - 12	OSAC Meeting for Chemistry Scientific Area Committee
July 15	Deadline for Hooke College of Applied Sciences Training Award
August 1	Deadline for Research Grant Award
August 6	Mass spectrometry webinar (see the Education Committee update on page 6)
August 16	Deadline to register for the Paint Data Query (PDQ) Workshop- Edmonton, Alberta Canada September 17-19, 2019
September 1	Deadline for 2019 Board of Directors positions application
September 15	Deadline for Professional Development Award
October	ASTEE elections
December 1	Deadline for Student Research Project Award

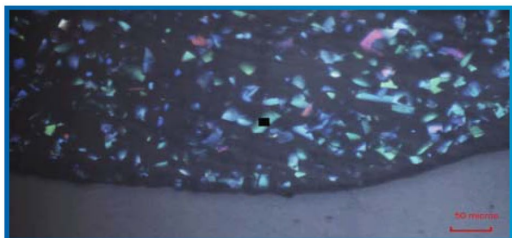
Forensic Science

with CRAIC Technologies™

The Perfect Vision for Trace Evidence



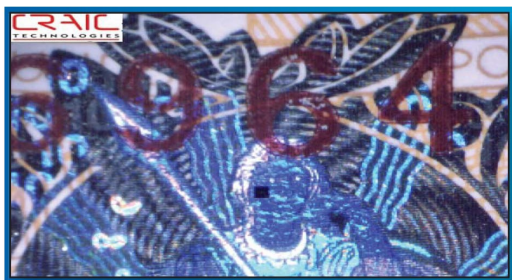
Fluorescence imaging of a nylon fiber with CRAIC's unique calibrated variable aperture.



Chromatflair paint sample using 10x magnification in reflectance, microscale shown is 50 microns.



Glass fragment with multiple probes for fast and accurate quantification measurements.



Foreign currency showing subtle variations of inks are detectable by CRAIC microspectrophotometers.

Fiber Evidence

CRAIC instruments measure and compare the UV, color, NIR and fluorescence spectra and images of the smallest known and questioned fiber samples rapidly and accurately.

Paint Evidence

CRAIC microspectrometers are commonly used to analyze the UV, color, NIR, fluorescence and Raman spectra and images of paint, paint chips and paint smears.

Glass Evidence

rIQ™: the smart way to measure the refractive index of glass. Also measure color and fluorescence in addition to the refractive index of multiple glass fragments simultaneously.

Explosives

CRAIC Apollo™ Raman microspectroscopy and UV microscopy can be used to locate and identify explosives easily and accurately.

Drugs

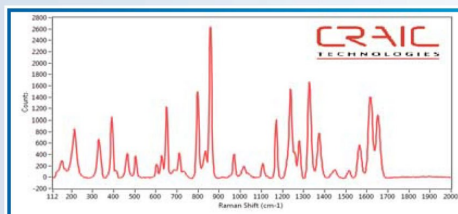
CRAIC Apollo™ Raman, UV and fluorescence microspectroscopy can be used for accurate identification of drugs of abuse.

DNA and Biological Evidence

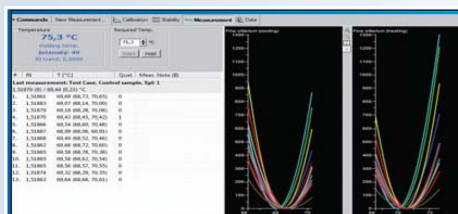
CRAIC UV microscopes can be used to identify usage of WMD materials from tissue samples. UV microscopy can also locate trace amounts of DNA and biological evidence.

Questioned Documents

CRAIC imaging and spectroscopy ranges from the deep UV to the near IR and gives you capabilities never offered previously.



Raman Microspectra™ of Acetaminophen using the CRAIC Apollo-532™.

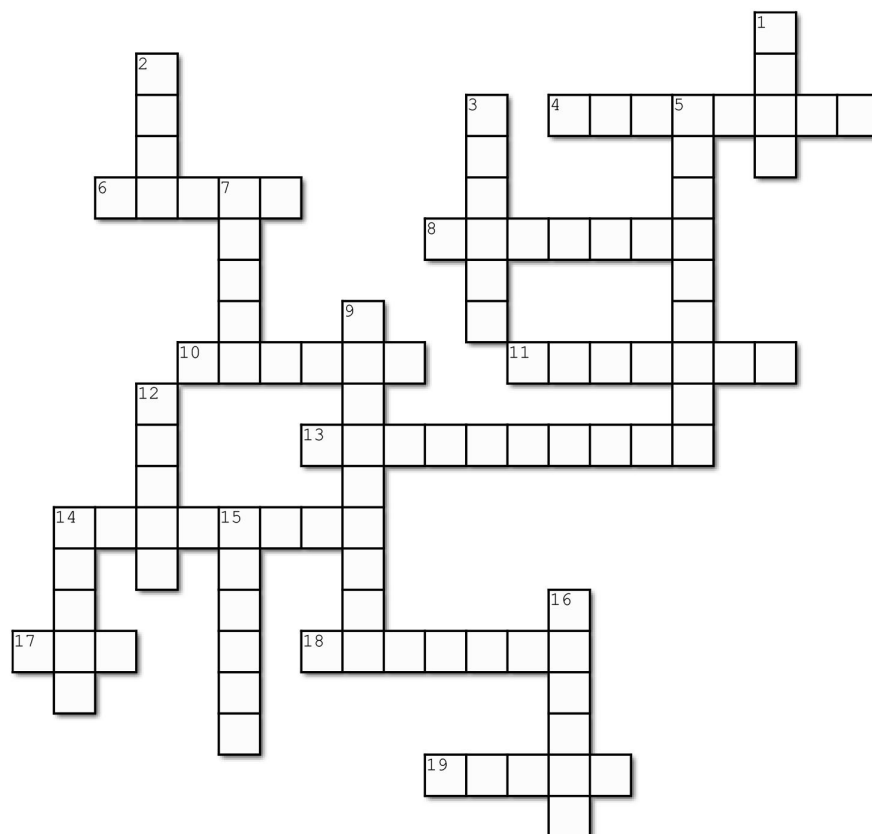


rIQ™ by CRAIC shows an illustrative interactive graphs of heating and cooling phase for each probe with zoom capability enables fast visual evaluation results.

CRAIC TECHNOLOGIES

ASTEE Crossword

Complete the crossword puzzle below



Created using the Crossword Maker on TheTeachersCorner.net

Across

4. Really bad to sneeze in, worn when working with biohazards
6. Bad light ends up in a _____?
8. Wool is this type of fiber
10. Who is the current ASTEE President? (hint: last name)
11. ASTEE will have a new one soon (hint: last word on "Awards" tab on asteetrace.org)
13. What do you call a mouthwash for tiny scientists?
14. Be like a proton, stay _____!
17. What trace analysis does "Michael Smith" represent on the back of the ASTEE challenge coin?
18. Long chain of molecules
19. A very small amount

Down

1. What element (found in GSR), doesn't like to follow?
2. You lose this daily
3. Father of Trace Evidence (hint: last name)
5. Dynamite e.g.
7. Why did the hair cross the microscope? To get to the other _____!
9. Who was the first ASTEE President? (hint: last name)
12. What you'll see when you look in the mirror
14. Methods for applying this: spray, brush, roller, dipping, electrodeposition
15. ASTEE has this number of standing committees staffed by volunteers
16. The quote in the ASTEE logo is in what language?

ASTEE at a Glance – Committee Updates

Audit Committee

The 2017 audit is nearly complete, and will be posted soon!

Awards Committee

Thank you to The McCrone Research Institute for sponsoring two ASTEE members for meeting registration, the Fungal Spore Identification from the Air Microscopy Workshop, Reggies' Rock Club Rooftop Dinner, and An Evening with Brian Presentation at the 2019 Inter/Micro Meeting.

Congratulations to our award winners! Courtney Cruse was selected as the 2019 ASTEE Scholarship award winner. Adrienne Kelly and Katherine Igowsky were recipients of travel awards to the SAFS/ASTEE meeting in Ashville, NC. Robert Boyle and Will Randle were selected to attend the two 2019 Inter/Micro Meeting packages sponsored by the McCrone Research Institute and also received travel awards from ASTEE.

ASTEE wants to support your research ideas. The Research Grant Award provides \$500 for a project that will advance the field of Trace evidence. Applicants must have proof of membership in ASTEE and submit a written research proposal. The award recipient will provide a summary of their research results to the ASTEE Board of Directors within one year of receiving the grant. See the ASTEE website for additional information. Deadline: August 1.

Bylaws/Administrative Rules Committee

The Bylaws committee is developing a code of conduct to present to the Board of Directors in July. It will likely mimic codes used by other forensic organizations.

Research Committee

This past spring, Angela Miller of George Mason University successfully completed her research in forensic geology under Andy Bowen's guidance. Andy has many years of experience in forensic geology, and is an ASTEE past president, so she was certainly in good hands. The Research Committee facilitated the pairing, although the research project itself largely followed GMU's required project outline. Andy helped her focus her proposal, shared books and relevant articles with her, demonstrated sample collection techniques, and referred her to other experts when necessary. He says the experience was a good one for him. And so, on that note, I'd like to encourage anyone who is interested in guiding or mentoring student research, or knows a student in need of such assistance to contact me (ASTEEresearch@gmail.com) or visit the Research Committee page on the ASTEE website: http://www.asteetrace.org/WebPages.cfm?action=viewCat&BIZ_UNL_id=49203.

ASTEE at a Glance – Committee Updates continued...

Education Committee

Thank you to all those who responded to the recent survey! We now have several contacts for potential training host sites and/or instructors. In addition, the top 3 topics as ranked by the membership are: 1) Paint – Instrumental, 2) Unknowns (lubricants, bank dyes, etc.), and 3) Fabric damage/Cordage. We will work diligently to try and provide training in one or more of these topics in the next year or two.

Glen Jackson from West Virginia University will be giving a webinar on mass spectrometry on Tuesday, August 6th, from 1pm – 2:30pm ET through RTI. Registration information will be provided by RTI about a month before the webinar.

There were approximately 15 people who indicated on the survey they are interested in the soil workshop at Penn State. Unfortunately, we were unable to schedule it for this summer. However, it has been tentatively rescheduled for May 2020. Be on the lookout for more information as we approach that date.

If you have educational information you would like disseminated to the ASTEE membership or if you have any other questions/comments/concerns/suggestions, please contact us at our NEW e-mail address: astee.edu.committee@gmail.com.

Elections Committee

ASTEE will be holding elections in October for the following 2019 Board of Directors positions:

- President-Elect (1-year term, then serves as President for 1 year): Fulfills the President's duties should the president be absent, leave office or become incapacitated. The President's duties include: presiding at meetings; conducting the business of the Society, and promoting the fulfillment of the Society's objectives.
- Secretary (2-year term): Records the minutes of the Board and Society meetings, maintains the Society records, and files (or appoints an agent to file) any and all necessary documents with the state of New Jersey.
- Director (3-year term): Act at the direction of the executive board (President, President- Elect, Treasurer, and Secretary) to carry out assigned tasks on behalf of the Society. Directors are voting members of the Board.

Serving on the ASTEE Board is a great way to contribute to the organization and to have a positive impact on the forensic science community. If you are interested in serving on the ASTEE Board of Directors in any of these positions, please send a photo along with a brief bio detailing your qualifications and the reasons why you would like to serve on the Board to Katie Igowsky, Katherine.Igowsky@state.mn.us, by September 1, 2019. The election will take place via electronic ballot in October.

ASTEE at a Glance – Committee Updates continued...

Membership Committee

The membership committee is happy to announce the addition of a new committee member, Ms. Stephanie Freiwald. She joins current committee chair, Lisa Schwenk, and will transition into the chair role by the end of the year.

Communications Committee

The Communications Committee is excited to welcome its newest member, Kaitlin Hafer, from the Trace Evidence Section of the Virginia Department of Forensic Science in Richmond! As you may have already noticed, Katie is now in charge of managing ASTEE's gmail account, asteetrace@gmail.com. Daniel is focused on managing www.asteetrace.org, as well coordinating the creation of ASTEE's new and improved website, which will make its debut this summer. More to follow, but we're excited for you to see all the changes we've made... we promise, the changes and new features on our website will be anything but "microscopic"!

ASTEE Challenge Coin

ASTEE is excited to announce that our new challenge coin is back on sale and orders are being shipped! The coins cost \$7.50 apiece, which includes shipping, and can be purchased with a credit card or through a PayPal account. Click <http://www.asteetrace.org/> to place your order.



News You Can Use

Did you know that there are FREE webinars offered by Hooke College, Forensic Technology Center of Excellence (FTCOE), and the American Chemical Society (ACS)? "Evidence from the Smoking Gun: Organic Components of Gunshot Residue" and "Painting a Brighter Future with Chemistry: Innovating with Higher Performing and More Sustainable Pre-composite Polymers" are just two of the webinars offered by ACS. FTCOE also offers the Just Science Podcast! Check out the links below for more information.

Resource	Website
Hook College - webinars	https://www.mccrone.com/category/modern-microscopy/webinars/
FTCOE- webinars	https://forensiccoe.org/trace-evidence/
FTCOE- podcasts	https://forensiccoe.org/just-science-podcast/
ACS – webinars	https://www.acs.org/content/acs/en/acs-webinars.html



HOOKE COLLEGE[™] OF APPLIED SCIENCES

PROFESSIONAL DEVELOPMENT COURSES

Hooke College offers a number of regularly-scheduled courses designed for busy industry professionals. Spend a week acquiring broader knowledge of analytical instrumentation, and learn new techniques to take back to your lab. Learn the practical knowledge that our industry experts have gained through decades of practice.

CUSTOM COURSES

Our instructors, who are practicing scientists and subject matter experts, understand that your unique problems require unique solutions. Begin with the content of our existing course offerings, then work together with us to design a curriculum that addresses your specific needs.

INDUSTRIAL MICROSCOPY SPECIALIZATION

This program consists of attending four professional development courses with hands-on instruction, each followed by a practicum characterizing unknown samples. Upon successful completion of the program, together with a capstone project, students earn an Industrial Microscopy Specialization.

LEARN ON INDUSTRY'S MOST MODERN EQUIPMENT

- JEOL scanning electron microscopes
- Thermo and Bruker FTIR systems
- Olympus BX line of microscopes
- Renishaw Raman microscope

Questions?

Contact education@hookecollege.com | 630-887-7100



“I appreciate that the instructors are practicing scientists. I really enjoyed the times the instructors or other students told stories about their personal experiences because it helped put things in perspective for the real world.”

— M. Shannon, Miami-Dade Police Department

ASTEE Event Prize Winners

The ASTEE reception at the joint SAFS/ASTEE meeting was held on May 1st at Bhramari Brewing Company. In addition to the prizes listed below, Barb Fallon, Katie Igowsky, and Paul Martin won t-shirts in the raffle. Continue onto the next page for more pictures from the reception and SAFS Banquet!



	<u>Prize</u>	<u>Winner</u>
1	Forensic Cartoon from Jairo Peláez Personalized and signed, *donated by Jairo Peláez	Alyshia Meyers
2	<u>The Microscopic Photographs of J.B. Dancer</u> *Donated by Chris Taylor	Gina Williams
3	PLM Photomicrograph by Sebastian Sparenga Matted, signed, and numbered; *donated by Sebastian Sparenga	Daniel Mabel
4	Bound Copy of <u>Microscopy of Feathers</u> With autographed dedication; *donated by Sandy Koch	Andria Mehlretter
5	Challenge Coin Holder *Handmade and donated by Chris Taylor	Scott Rochowicz
6	<u>Handbook of Chemical Microscopy</u> (Vol. 1 & 2) *Donated by Chris Taylor	Eileen Davis-Clawson
7	Gift Card for Custom Fordite Jewelry - \$100	Steven Phillips
8	Forensic Library Prestige: 4 books; one is first publishing of Locard's Exchange Principle, two books which cite the principle, and the forth includes Edmond Locard's signature Most are first editions	Amy Michaud
9	Microtool Set – included 4 types of forceps, 2 different needle holders with replacement needles, scalpel with 2 types of blades, carbide scribe, ruler, slide marker, brush, scissors, microspatula, glass rod, and more! *Donated by The McCrone Group	Sun Yi Li
10	Box with Inlaid ASTEE Challenge Coins *Handmade and donated by Chris Taylor	Ethan Groves
11	McCrone Microscope Series Monographs – 11 publications from the original 52 titles in a series of monographs related to the microscope. All are original print publications and hardbound. *Donated by McCrone Research Institute	Sandy Parent
12	Swarovski Crystal Microscope *Donated by Chris Taylor	Cara Plese

SAFS/ASTEE Joint Meeting





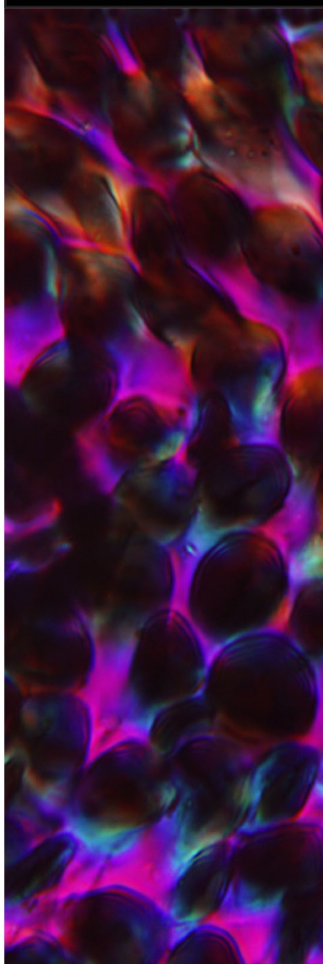
MICROSCOPY COURSES

McCrone Research Institute
a not-for-profit corporation

2820 S. Michigan Avenue
Chicago, IL 60616-3230

registrar@mcri.org
phone: 312-842-7100
fax: 312-842-1078

www.mccroneinstitute.org



Chemical Microscopy

July 29–August 2, 2019 • Baker Laboratory, Cornell University

Chemical Microscopy at Cornell University (1202) is a graduate-level applied polarized light microscopy (PLM) course taught every summer at Baker Laboratory by McCrone Research Institute instructors since 1984. It covers all the necessary techniques of PLM for identifying and analyzing optical and chemical properties of small particles.

In this hands-on microscopy course, students will learn how to:

- Perform reliable PLM operations and techniques
- Identify small particles, including organic and inorganic chemical compounds
- Characterize fibers from animal, mineral, vegetable, and man-made origin
- Perform microchemical and microcrystal tests
- Practice visual/thermal methods
- Study crystals and optical crystallography



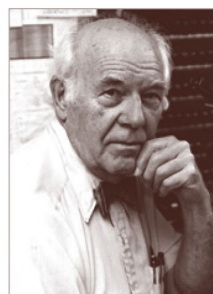
Baker Laboratory, Cornell University, the birthplace of chemical microscopy in the U.S.

Lectures and laboratory demonstrations using video for macro- and micro-projection will cover PLM theory, techniques, and interpretation. Each student will perform applicable exercises on the polarized light microscope. The course is taught by Dr. Gary J. Laughlin, senior research microscopist at McCrone Research Institute.

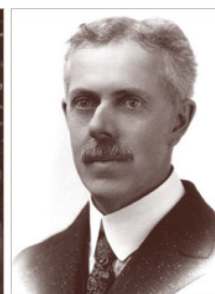
Class schedule: 8:30 a.m.–5 p.m. Monday–Thursday and 8:30 a.m.–12 p.m. Friday, Room G-19, Baker Laboratory, 259 East Avenue, Ithaca, NY 14850.

Chemical Microscopy at Cornell

Walter C. McCrone (1916–2002), founder of McCrone Research Institute in Chicago, obtained a B.S. in chemistry (1938) and a Ph.D. in chemical microscopy (1942) from Cornell. He spent two additional years doing his post-doc research with Professor Chamot. McCrone Research Institute, where McCrone developed and taught additional courses, is now a center of microscopy education and research.



Walter C. McCrone



Émile M. Chamot

Émile M. Chamot (1868–1950), the preeminent authority in the application of the microscope to chemistry and the “father of chemical microscopy,” did his senior research thesis at Cornell University with Professor George Caldwell, the first head of the Chemistry Department. Baker Laboratory, where Chamot taught, is the birthplace of chemical microscopy in the United States.

Class size is limited. See full course description and register online at www.mccroneinstitute.org.

ASTEE Sponsored Evening

The Inter/Micro meeting, hosted by McCrone Research Institute in Chicago, was conducted 10 - 14 June 2019. This meeting attracts talks and attendees from all areas of light and electron microscopy, and nearly a day and a half of talks this year were dedicated to forensic science. ASTEE sponsored the Tuesday evening event held on the rooftop of Reggie's Rock Club. It was a beautiful evening, and was free for all ASTEE members to attend. The event included barbecue fare, an extensive beer menu, trivia contest, and a special Meritorious Service Award conferred by ASTEE to one of its longtime sponsors. As ASTEE is celebrating its 10th anniversary, we recognize that the organization would not be where it is today without our benefactors and financial supporters, some of which have been



ASTEE sponsors since the beginning. This includes Dr. Gary Laughlin, director of McCrone Research Institute. Gary has been supportive of ASTEE from its very early days, starting with the journal collaboration between The Microscope and JASTEE in 2010. McCrone Research Institute has also sponsored the Professional Development Award since 2013, which offers a free microscopy course to an ASTEE member every year. Not only this, but I can attest from personal experience as a former employee at McCrone Research Institute that Gary has always been supportive of trace evidence research and training, both financially and as a mentor. It was an honor to present him with this well-deserved award. ASTEE is thankful for all that you have done for the trace community!

The trivia contest followed the award presentation, and included six rounds of questions. In the end, the team "Back of the Bus" was crowned the winners! The team was made up almost entirely of ASTEE members: Peter Zoon, Pete Diaczuk, Jan Burmeister, Martin Janssen, Walter Rantanen, Robert Boyle, Patrick Buzzini and Joseph Insana. Each winner walked away with a coveted beaker-mug and bragging rights. Until next year, practice your trivia with the 2019 questions below. (Answers on page 17)

Trivia 2019

Name Change: I will give you the former name of a place, you tell me its current name.

- | | |
|------------------|-------------------|
| 1. East Pakistan | 6. Constantinople |
| 2. Ceylon | 7. Saigon |
| 3. Bombay | 8. New Amsterdam |
| 4. Leningrad | 9. Zaire |
| 5. Mt. McKinley | 10. Burma |

General Store:

1. What element is below silver in the periodic table?
2. In 2018, climber Alex Honnold climbed what famous granite outcropping in Yosemite without any ropes?
3. What is the only place in the world that is considered US soil but people born there are not US citizens?
4. A gold ring that is 50% gold and 50% other metals will be rated how many carats?
5. What English writer, illustrator, natural scientist, and conservationist became best known in the early 1900s for her children's books featuring animals?



Trivia 2019 continued...

HQ IQ: Name the city in which these companies have their primary headquarters:

- | | |
|--------------|--------------------|
| 1. Coca Cola | 6. Starbucks |
| 2. Apple | 7. Heineken |
| 3. BMW | 8. Mars Wrigley |
| 4. Chanel | 9. Harley-Davidson |
| 5. Tesla | 10. FedEx |



D'Arts

1. During the mid 20th century, most of the works of American painter Norman Rockwell appeared as cover illustrations for what magazine?
2. What innovative, sometimes controversial sculptor in 1904 unveiled a bronze work of a contemplative male that he called Le Penseur?
3. Which 19-20th century artist, son of the founder of a New York jewelry chain, applied the Art Nouveau style to stained glass windows, lamps, and other decorations?
4. What is the alternate, Italian name for the Mona Lisa?
5. Which French Impressionist painter was famous for his studies of ballet, horse racing, and young women working?

OMG: I will give the name of the Greek god, you provide the name of its Roman counterpart.

- | | |
|-------------|--------------|
| 1. Zeus | 6. Aphrodite |
| 2. Poseidon | 7. Athena |
| 3. Ares | 8. Hera |
| 4. Hades | 9. Eros |
| 5. Hermes | 10. Apollo |



Unsolved Mysteries

1. On March 18, 1990, 13 works of art valued at a combined total of \$500 million were stolen from what Boston museum?
2. In November 1971, who hijacked an airline, then disappeared during the flight after securing \$200K from authorities?
3. In 1947 an actress named Elizabeth Short was found gruesomely murdered in a vacant lot in Los Angeles. What nickname did she receive from the press?
4. In August 1962, two gunmen dressed as police officers ambushed a mail truck on its way from Cape Cod to the Federal Reserve Bank of Boston and stole \$1.5 million in cash (equivalent to over \$12 million today). In what Massachusetts town did the ambush occur?
5. What jewelry store in Paris was the scene of a 2008 smash-and-grab robbery in which four men dressed as women stormed into the store and stole more than \$100 million in merchandise, making it the largest jewel robbery ever in France and one of the largest in the world.

See page 17 for answers...

May We Introduce You To...

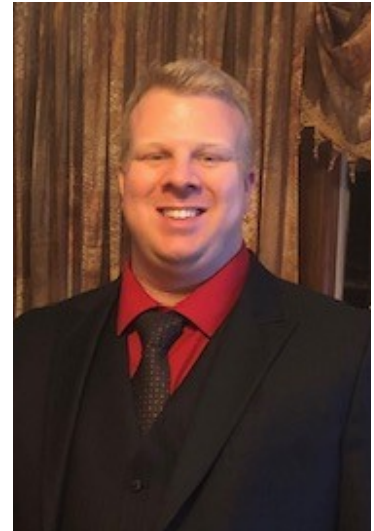
May We Introduce You To... *Dave Freehling*

Occupation: Forensic Scientist Manager – Trace Evidence Section – North Carolina State Crime Laboratory

What Trace Evidence sub-discipline(s) are the focus of your work?

Besides managing the Trace Evidence Section I work gunshot residue, paint and polymer, and fracture match cases.

What is your favorite quote? I have two, one professional and one personal. I'm new to management so this quote from Richard Branson speaks to me. *"Train people well enough so they can leave, treat them well enough so they don't want to."* I don't know the author of my favorite personal quote, but I have two kids, Carly (5) and Ryan (4) and this is for them. *"I can't promise to be here for the rest of your life but I can promise to love you for the rest of mine."*



What is the top activity on your bucket list? I'm originally from Pittsburgh and I'm a huge Pittsburgh sports fan. I've seen the Steelers and Penguins win championships in my lifetime but not the Pirates. I would love to see the Pirates win the World Series and watch one of those games at PNC Park. It's the best ballpark in the country to watch a baseball game!

What do you like to do in your down time? I enjoy spending time with my wife and kids, watching Pittsburgh sports and taking trips to the beach. Living in Raleigh we are within a three hour drive of Virginia Beach, the Outer Banks, and Myrtle Beach.

May We Introduce You To... *Kris M. Gates*

Occupation: Senior Forensic Scientist, Oregon State Police Forensic Services Division

What Trace Evidence sub-discipline(s) are the focus of your work? Paint, Glass, Physical Match, and Miscellaneous (Poisons/Chemical Unknowns)

Who has been a mentor to you and how have they helped you? Rhonda Banks, now with ANAB, was my Trace Evidence mentor and coach. Her constant focus on critical thinking, quality, and attention to detail shaped the way I approach my work. I try to pass on these qualities to my own trainees.



What do you like to do in your down time? Travel! So far: Argentina, Chile, Easter Island, England, Ireland, Italy, France, Russia, British Columbia, South Africa, Botswana, Zimbabwe, Costa Rica and Belize. I also love to grow and preserve food, bake, and I've recently started keeping bees and harvesting honey.

Tell us something that would surprise others about you: I've been in the same book group since 1996. We meet monthly for a great discussion and delicious pot luck feast.

May We Introduce You To...continued...

May We Introduce You To... Dr. Paul Martin

Occupation: President, CRAIC Technologies

What Trace Evidence sub-discipline(s) are the focus of your work? UV-vis-NIR, Fluorescence and Raman microspectroscopy of all types of trace evidence

What is your favorite quote? *"No matter where you go... there you are."* (Buckaroo Banzai)

What is the top activity on your bucket list? I want to visit Antarctica (in summer). I have been to all the other continents but that one.

What do you like to do in your down time? Hiking in the mountains and high desert.

What is the most interesting place you have been? Too many to choose from!



Award Presentations



CALL FOR PAPERS

Inter/Micro 2020

Chicago, June 8–12, 2020

An international microscopy conference — since 1948

*Sponsored and Hosted by
McCrone Research Institute*



- Speaker Presentations
- Microscopy Workshop
- SMSI Awards Dinner
- An Evening with Brian
- Photomicrography Competition
- Live and Silent Auctions
- Exhibitors...and more!

Learn more at
www.mccroneinstitute.org

McCrone Research Institute

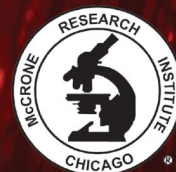
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1. Bangladesh
2. Sri Lanka
3. Mumbai
4. Saint Petersburg
5. Denali
6. Istanbul
7. Ho Chi Minh City
8. New York City
9. Democratic Republic of the Congo
10. Myanmar

General Store:

1. Gold
2. El Capitan
3. American Samoa
4. 12K
5. Beatrix Potter

HQ IQ:

1. Atlanta
2. Cupertino, CA
3. Munich, Germany
4. Paris
5. Palo Alto, CA
6. Seattle, WA
7. Amsterdam
8. Chicago
9. Milwaukee
10. Memphis

D'Arts

1. Saturday evening post
2. Rodin
3. Louis Tiffany
4. La Gioconda
5. Degas

OMG:

1. Jupiter
2. Neptune
3. Mars
4. Pluto
5. Mercury
6. Venus
7. Minerva
8. Juno
9. Cupid
10. Apollo

Unsolved Mysteries

1. Isabella Stuart Gardner Museum
2. D. B. Cooper
3. Black Dahlia
4. Plymouth. The heist is known as the "Great Plymouth Mail Truck Robbery."
5. Harry Winston



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