

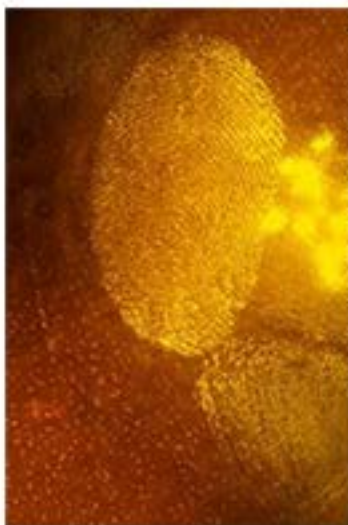
NATIONAL FORENSIC SCIENCE WEEK

CSI:WI



EVENT INFORMATION BOOKLET

ALTERNATIVE LIGHT SOURCE (ALS) INVESTIGATIONS



Sometimes evidence exists that we can't see with the naked eye alone. Using an Alternative light source can help Crime Scene Investigators to locate that evidence which will help us to document, collect, and process it. An ALS uses wavelengths of light emitted at different visible ranges to cause a subject's molecules to excite. This will cause some types of evidence to fluoresce light back to us to help us see it! Important Crime Scene Investigation evidence that will fluoresce are items like hairs, fibers, and biological fluids that might contain DNA. We can also use an ALS to see blood, bruising, bone, ink, accelerants, fingerprints, and so much more!

Ashwaubenon Department of Public Safety offers an internship program to college students in partnership with Fox Valley Technical College's Forensic Science Program and is willing to provide opportunities to high school students to come in and learn more about working in the field.

PRESENTED BY:



Holly Maas

*Evidence Technician, Property Manager,
and Crime Analyst*

Ashwaubenon Dept. of Public Safety


hmaas@ashwaubenon.gov


(920) 593-4479

Holly is a civilian employee that works full time at Ashwaubenon Department of Public Safety. She is the only crime scene personnel at the department working closely with the Investigative Unit to create a team of people with individual skills that provide the Ashwaubenon Community with the best possible care of their calls. Holly responds out to crime scenes to search/locate, photograph, sketch, collect, and preserve evidence. When not on the scene, Holly manages the department's evidence room and processes evidence for potential prints and DNA. Holly also works as the departments Crime Analyst using information gathered on calls to help provide


investigative leads and link crimes. In her off time, Holly instructs in the Forensic Science program at Fox Valley Technical College and additional trainings at Northeasterns Wisconsin Technical College. Holly is an Alumni of Fox Valley Technical College and Certified Property and Evidence Specialist through IAPE. She will be testing this fall to become a Certified Crime Scene Analyst through the IAI.

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DNA



Did you know that two people can share the same DNA? While the average person's DNA is unique, identical twins will share the same DNA. DNA can be found in blood, saliva, bone, semen, sweat, fingerprints, hair roots, feces, and other parts of the body - and it can be found virtually anywhere at a crime scene. In the field, crime scene investigators can swab surfaces or recover items in an attempt to collect DNA. After these swabs or items are taken, they can be sent to the Wisconsin State Crime Laboratory, where they will be analyzed. The resulting "questioned" DNA profile will then be evaluated against "known" standards to determine if the DNA matches!

Appleton Police Department



The Appleton Police Department's Identification Unit is comprised of three fulltime civilian Forensic Evidence Specialists. They are responsible for maintaining chain-of-custody for all property and evidence; sending items to the state crime lab; and providing discovery to the three District Attorney's office in Appleton's jurisdiction. In addition to their administrative work, they process all major crime scenes and handle post-processing of evidence. Essential to their role is security and confidentiality.

The Appleton Police Department's advice: *"Be willing and prepared to do everything you can to reach your goals! We recommend any of the following: join a club, take classes related to the field, volunteer, shadow a professional, participate in an internship, join a Police Explorer program, apply to be a Community Service Officer, etc. Creating a network of connections and experience early on will not only enhance your knowledge of the field, but also provide you with great resources if this is something you are truly passionate about."*

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DNA

PRESENTED BY:



Falyne Gerisch

Forensic Evidence Specialist
Appleton Police Department

identificationunit@appleton.org
(920) 832-5948

Falyne is a fulltime Forensic Evidence Specialist at the Appleton Police Department. She has an associate degree in Forensic Science, an Evidence Technician Certificate and a Criminal Investigator Certificate through Fox Valley Technical College. She started her career in 2020. In 2022, she also accepted a job as an adjunct instructor for Fox Valley Technical College, teaching a couple of the forensic science classes. She enjoys all parts of her job, but really enjoys getting to process crime scenes.



Kourtney Hyland

Forensic Evidence Specialist
Appleton Police Department

identificationunit@appleton.org
(920) 832-5948

Kourtney has been working full time for Appleton Police Department as a Forensic Evidence Specialist since 2020. She received a bachelor's degree in Biology with minors in both psychology and coaching through the University and Wisconsin-Stevens Point. After graduating from UWSP, she attended Fox Valley Technical College and received an associates degree in Forensic Science. Her favorite part of her job is developing, photographing and collecting latent prints!



Nicole DelPlaine

Forensic Evidence Specialist
Appleton Police Department

identificationunit@appleton.org
(920) 832-5948

Nicole is a Forensic Evidence Specialist at the Appleton Police Department. She has a bachelor's degree in Criminology and Psychology, as well as a Forensic Science Certificate, through the University of Wisconsin-Whitewater. She started her career in 2021, immediately after graduation.

FINGERPRINTS



Did you know that there are 3 types of prints that can be left behind by a person? Latent print, patent print and a plastic print: A latent print is a print left behind that is made up of sweat and oils from the skin and is invisible to the human eye, which requires additional processing to be visible. A patent print is a print left behind that can be made by blood, dirt, ink, or grease, and is visible to the human eye. A plastic print is a print left behind by someone in fresh paint, wax, soap, or tar, and is visible to the human eye. There are many reagents, powders, chemicals, and equipment, that are used to process and search for prints left behind on an object or at a crime scene.



Green Bay Police Department

The Green Bay Police Department's (GBPD) Forensic Unit is made up of 3 full time civilian Forensic Specialists, who are unique to the surrounding agencies as they only specialize in Forensic related duties. The Forensic Unit processes a wide variety of crime scenes from retail thefts to homicides. They work together to methodically observe, analyze, and document crime scenes using a variety of equipment and methods to collect and preserve all evidence related to the crime. In addition to standard crime scene photographs, the unit also utilizes other tools such as alternate light sources to detect biological and trace evidence, trajectory rods for shooting reconstruction, and surveillance video to transpire a case. The thorough efforts of the Forensic Unit to help determine the facts of the case while maintaining the integrity of the crime scene.

In 2021, the members of the GBPD Forensic Unit each received a Legion of Merit Medal for their commitment and diligent efforts regarding the numerous shootings that took place in 2020. Baeleigh, Kristen, and Shelly are all working to become a Certified Crime Scene Analyst through the IAI (International Association for Identification).

The GBPD Forensic Unit's advice: *"Don't limit yourself to a specific location, area, or job title when searching for Forensic careers as each agency is different. We encourage anyone interested in a job shadow to reach out to us for more information. #JobShadowGBPDForensics"*

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FINGERPRINTS

PRESENTED BY:



Baeleigh Andrae

Forensic Specialist
Green Bay Police Department

group_police_ifsu@greenbaywi.gov
(920) 448-3255

Baeleigh has been with the GBPD Forensic Unit for almost 8 years. Baeleigh started her position as the first civilian Forensic Specialist working alongside two sworn Officers and has played a big role in the change of the unit switching from sworn to all civilian positions. Today she is now the Lead Forensic Specialist of the unit. Baeleigh went to school at University of Wisconsin-Platteville where she earned 2 bachelor's degrees in Forensic Investigation and Criminal Justice. She continues her education by attending trainings for fingerprint comparisons, crime scene processing and researching new techniques. Her favorite part about her job is comparing fingerprints for identification purposes.



Kristen McMullen

Forensic Specialist
Green Bay Police Department

group_police_ifsu@greenbaywi.gov
(920) 448-3255

Kristen moved to Wisconsin in 2018 and has been with the GBPD Forensic Unit for almost 4 years. Kristen has earned multiple degrees from the University of New Haven located in West Haven, Connecticut which includes a bachelor's degree in Forensic Science with a minor in Criminal Justice, a bachelor's degree in Biology, and a master's degree in Forensic Technology. Kristen continues her education by attending various trainings related to crime scenes and bloodstain pattern analysis. Her favorite part about her job is processing various types of crime scenes.



Shelly Czarneski

Forensic Specialist
Green Bay Police Department

group_police_ifsu@greenbaywi.gov
(920) 448-3255

Shelly has been with GBPD for a total of 11 years and is reaching her 4th year in the Forensic Unit. Shelly has earned an associate degree in Forensic Science through Fox Valley Technical College in Appleton, Wisconsin. She has attended numerous specialized trainings for crime scenes, latent prints, and NIBIN (National Integrated Ballistic Information Network). She recently became a board member for WAI (Wisconsin Association for Identification) and is chair on 2 committees (Forensic Certification Advisory Committee and Science & Practice: Firearms). Her favorite part about her job is continuing to learn daily and processing high profile crime scenes such as homicides.

FOOTWEAR IMPRESSIONS



Did you know that the soles of your shoes can be just as unique as your own fingerprint? Two people may buy the exact same pair of shoes on the same day, but the way those individuals wear them are completely different. Everyday wear and tear, based on things like the surfaces you walk on and the way you walk, will eventually lead to unique characteristics on the soles that can be used to identify a person! There are many different techniques crime scene investigators use to search for and collect footwear impressions and shoeprints at a crime scene. Check out the Footwear Impressions Booth to learn more about these techniques!

The Grand Chute Police Department's Evidence Section is comprised of one full time Evidence Specialist and one part time Evidence Specialist. They also offer an internship program to college students in partnership with Fox Valley Technical College's Forensic Science Program.

PRESENTED BY:



Kali Draeger


Certified Property & Evidence Specialist
Grand Chute Police Department


gcpdevidence@grandchutewi.gov
(920) 832-1575


Kali is a full time civilian Property Manager and Evidence Specialist at the Grand Chute Police Department. Kali has earned a bachelor's degree in Biology through the University of Wisconsin - Eau Claire as well as an associate's degree in Forensic Science through Fox Valley Technical College. She started her career in 2018 and is certified in Property and Evidence Management through the International Association for Property and Evidence (IAPE) and is currently working to become a Certified Crime Scene Analyst through the International Association for Identification (IAI). Her favorite part of her job is searching for and collecting fingerprints!

Kali's advice to anyone interested in Forensic Science: *"Reach out to your local police departments! We are always thrilled to schedule a shadow with you to help you learn more about the field and the job. We can also give you information on various education paths, resources, networking opportunities, and other Forensic Science related careers!"*

Stay connected with the Grand Chute Police Department:

 @grandchutepd

 grandchute.net

 Grand Chute Police Department

MOCK CRIME SCENE



When it comes to Crime Scenes, being able to identify evidence is key to helping solve crimes. Using the information you've gathered upon entering a scene, working with Deputies and Detectives, you will be able to see evidence from beginning to end. From collection at the scene, to processing for prints or DNA, sending to the crime lab to when the evidence meets you in court. There are multiple steps to consider when collecting and preserving evidence.

Do you have what it takes to become a Crime Scene Technician?

PRESENTED BY:



Jessica Trzebiatowski

Criminal Support Specialist
Manitowoc County Sheriff's Office

jessicatrzebiatowski@manitowocountywi.gov
(920) 683-6139


Jessica is a fulltime Criminal Support Specialist at the Manitowoc County Sheriff's Office. In doing this position, Jessica's main role in the department is to maintain the chain of custody of evidence. Along with this, other tasks she completes are firearms background checks, property returns, sending/delivering evidence to the State Crime Lab and being an Evidence Manager for Crime Scenes and Search Warrants.

She earned this position after earning an Associate's Degree in Forensic Science through Fox Valley Technical College. Along with the degree she has earned her Evidence Technician Certificate, completed Evidence Technician School and other internal Certificates. Starting her career in 2022, she has become a member of the Wisconsin Association for Identification (WAI).

Jessica's advice to anyone interested in Forensic Science: *"If it's truly what you want to do, don't stop until you get there! It took me over two years of applying and interviewing to finally get my dream job and the hard work paid off! I now have the job I've been looking for to a 'T' since I graduated college!"*

Stay connected with the Manitowoc County Sheriff's Office:

 @manitowoc_so

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 Manitowoc County Sheriff's Office

PACKAGING / POLYVINYLSILOXANE (PVS)

All forensic evidence must be recovered from a crime scene and correctly packaged; the correct packaging is vital as the packaging can damage, alter and contaminate evidence. Packaging protects the integrity and continuity of evidence and its evidential value.



Casting materials are not just for bite and tool mark impressions, they can also be used to obtain fingerprint evidence on rough surfaces, human skin, blood prints, and other types of evidence. Typical lifting methods tend to break up the details needed to identify prints, whereas casting materials fill in textured areas allowing the whole print to be lifted.

PRESENTED BY:



Cyndel Sawall

Certified Property & Evidence Specialist
City of Menasha Police Department

csawall@ci.menasha.wi.us
(920) 967-3595


Cyndel is currently employed as an Evidence Custodian, Evidence Technician and Evidence Specialist with the City of Menasha Police Department. Cyndel graduated with an associate's degree in Forensic Science through Fox Valley Technical College. She started her career in 2017 and is a Certified Property and Evidence Specialist through the International Association for Property and Evidence Inc. (I.A.P.E.), as well as the Chairman for the Property and Evidence Committee and the Third Vice President for the Wisconsin Association of Identification (W.A.I.). Cyndel is very passionate about her career and is dedicated to sharing her knowledge and expertise to individuals throughout the state, whether employed in the field or aspiring to pursue their own career!

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PROJECTILE TRAJECTORY / BALLISTICS



Processing a Shooting scene involves several key aspects: evidence collection, projectile trajectory, and defect documentation. Firearms, casings, and projectiles are all collected at a shooting scene. Projectile defects found on walls, vehicles, or other surfaces are documented through measurements and trajectory dowels. It is important to document the location and nature of the bullet defect by measuring the horizontal and vertical distance from fixed locations, as well as the shape and size of the defect itself. A bullet defect has a horizontal and vertical angle of impact, which are determined with a zero-edge protractor and an inclinometer. Trajectory dowels are inserted in the projectile defect, and a laser or string can be attached to the end of the dowel and extended to estimate path of flight.

PRESENTED BY:



Brown County Sheriff's Office


Nora Cheney
Evidence Technician


Capri Amelunk
Evidence/Property Specialist


The Brown County Sheriff's Office Evidence/Property department is comprised of two unsworn individuals: Evidence Technician Nora Cheney and Evidence/Property Specialist Capri Amelunk. There are also two sworn officers who have access to evidence rooms – Sgt. Matt Wilson and Sgt. Tracy Holschbach. Nora and Capri manage the property and evidence intake, preservation, and storage, and will also respond to crime scenes. They undertake scene documentation by searching, collecting, processing, and the handling of evidentiary items, including photographs, scene sketches, latent prints, DNA, footwear/tire tread/toolmark impressions, trace items, and firearms.

To connect with the Brown County Sheriff's Office for a ride along (over 18 years old), please contact Lt. Kevin Pawlak at kevin.pawlak@browncountywi.gov. For individuals interested in our Cadet program (15-20 years old), please reach out to SRO Jessica Smith at jessica.smith@browncountywi.gov.

Stay connected through Brown County Sheriff's website and social media:

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 Brown County Sheriff's Office

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