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Unidentified Human Remains Investigations 101

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Bureau of Criminal Investigation, Violent Crimes

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Disclaimer

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Lara Newell, MA, F-ABMDI

Lara Newell is a board-certified medicolegal death investigator who is currently employed at the Virginia Office of the Chief Medical Examiner (VA OCME) as the Long-Term Unidentified Coordinator. Currently, her caseload exceeds 300 cases, and she works closely with local, state and federal law enforcement, private and state funded laboratories, genealogists, the National Center for Missing & Exploited Children (NCMEC), the National Missing and Unidentified Persons System (NamUs), and other partners on Virginia's long term unidentified cases. With over a decade of experience in death investigation and a focus on unidentified cases, Lara leads statewide efforts in identification, outreach and training. Lara is also adjunct faculty at Virginia Commonwealth University (VCU) and manages two internships, one with VCU and one with Randolph Macon College. Lara currently serves as the secretary for the American Academy of Forensic Sciences' (AAFS') Academy Standards Board (ASB) Medicolegal Death Investigation Consensus Body. Lara is a FY23 Bureau of Justice Assistance (BJA) Missing and Unidentified Human Remains (MUHR) Program grant recipient and has been using funds for exhumations and forensic genetic genealogy (FGG).





Senior Special Agent Douglas R. Hubert

Senior Special Agent Douglas R. Hubert began his law enforcement career with the Virginia State Police in 1998, following honorable service in the US Navy as a 3rd Class Petty Officer assigned to the US Navy Ceremonial Honor Guard in Washington, DC. After graduating from the Virginia State Police Academy, he was assigned to Fairfax County, where he served on the Crash Reconstruction Team and responded to several high-profile incidents, including the September 11th Pentagon attack and the DC sniper investigation.

In 2003, Hubert transferred to Roanoke County and went on to serve in a variety of specialized roles, including the Sex Offender Unit, Firearms Transactions Section, US Marshals Fugitive Task Force, and as a certified Crash Reconstruction Expert and Field Training Officer. He was promoted to Special Agent in the Bureau of Criminal Investigation in 2017 and now focuses on major violent crimes, including homicides, sexual assaults, and cold cases.

As one of the primary crime scene agents for the Salem Field Office, Hubert leads in crime scene documentation and evidence collection, including officer-involved shooting investigations. He is a trained Bloodstain Pattern Analyst, Leica Scanner Operator, Rapid DNA Program Lead, and Crime Scene Reconstructionist. A graduate of the Virginia Department of Forensic Science Academy, he has received extensive training in forensic evidence and crime scene analysis.

Hubert holds a Bachelor's degree in Criminal Justice from Bluefield College.





ttps://vsp.virginia.gov/

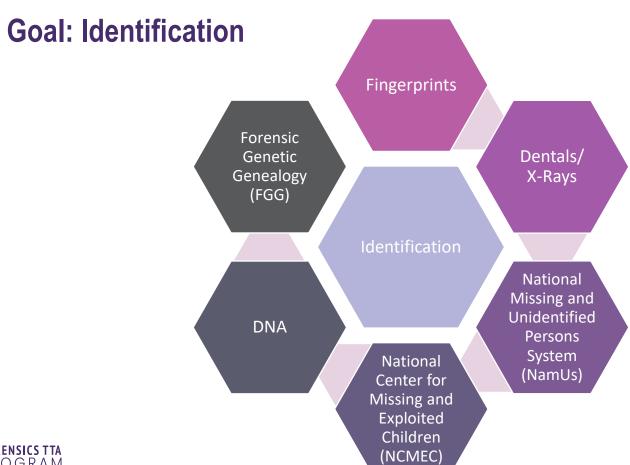
WARNING

This presentation contains graphic images that are sensitive in nature which may be considered triggering to some audiences.





Identifying Unidentified Human Remains:
Suggested Best Practices from
the Medical Examiner's Perspective





How a Case Starts

- Remains found in the woods, on abandoned property, in a storage shed, in a homeless camp, in a river...
- What do we look for first?
 - ID (driver's license, credit card, birth certificate, immigration papers, etc.)
 - Tattoos, scars, marks
 - Anything else on scene that can help
- How do we autopsy?
 - In the standard way but with:
 - Dental x-rays
 - Anthropology
 - Evaluation for fingerprints
- What then?
 - In VA, case is referred to me



The Discovery

Remains are found floating in a river

Decomposed, not visually ID'able

Clothing intact and waterlogged

The "Easy" Stuff

- Fingerprints
 - Federal Bureau of Investigation (FBI) Latents
 - Online trainings for difficult to print remains
- Dentals/X-Rays
 - Assist with age, especially if juvenile/young adult remains
 - Unique dental and skeletal features
 - Locate previous trauma/healing trauma



Autopsy

Exam findings consist with drowning

Photos taken of:

- · Clothing, to include size and label
- Footwear
- Coins found in pocket
- Belt and belt buckle

X-Rays:

 Of body – show healed fractures to ribs (car crash? abuse?)

OCME staff unable to fingerprint

Fingerprint Assistance

FBI Lab Latent Prints Unit

- Waterlogged
- Burned
- Mummified
- As long as there is tissue, there is a print
- No hits in online and offline searches
- Prints entered into FBI's Next Generation Identification (NGI) system as unidentified individual

Creating an Image

- Anthropology
 - Height, ancestry, age, sex, post-mortem interval (PMI)
 - Ante-/peri-/post-mortem trauma
- Facial Approximation
 - FBI trace unit, operational support
- Transnational Anti-Gang (TAG) Task Force
 - Tattoos/Markings/Brandings



Searchable Databases







https://leb.fbi.gov/bulletin-highlights/additional-highlights

https://namus.nij.ojp.gov/

- National database
- Unidentified Person (UP) & Missing Person (MP) cases
- Public vs Professional
- Biometrics
- Comparisons

- Violent crimes, including homicides
- Managed by the FBI
- Undetermined with suspicion of violence

- Not just for UHR/MPs
- Law Enforcement Agencies (LEAs) can track violent crimes across state lines
- Entries expire



NCMEC



www.missingkids.org

- Intake Criteria:
 - Remains assessed to be under the age of 21
 - Top of age range cannot exceed 25
 - Age assessment completed by forensic professional
 - Infant cases must be ruled a homicide
 - No single body parts (some exceptions made based on totality of circumstances)
 - Law Enforcement Agency or Medical Examiner/Coroner/Forensic Anthropologist may request NCMEC's assistance



NCMEC (continued)

- Biometric Support
 - Facilitate the collection of biometrics
 - DNA (for Combined DNA Index System [CODIS] = short tandem repeats [STRs] and mitochondrial DNA [mtDNA])
 - Dental Records
 - Fingerprints
 - Ensure biometric information is uploaded into all appropriate national databases
 - NGI Next Generation Identification
 - NCIC National Crime Information Center
 - CODIS Combined DNA Index System
 - NamUs National Missing and Unidentified Persons System

Fingerprints

United States Secret Service
Criminal Justice Information Services (CJIS)

Dentals

3 Forensic Odontologists

DNA

FBI and NamUs

6 State Laboratories (UNT HSC, MN BCA, VA DFS, OH BCI, NY OCME, CA DOJ)



NCMEC (continued)

- Public Engagement
 - Four forensic artists
 - Facial reconstruction
 - Clothing or personal item reconstruct
 - Tattoo reconstruction
 - Communications Team
 - Press notifications
 - Poster distribution
 - Social media
 - Blog and videos





https://www.facebook.com/HelpIDme



https://www.missingkids.org/blog/2019/post-update/you-could-solvemystery-of-apache-junction-jane-doe



https://www.facebook.com/HelpIDme



NCMEC (continued)

- Other services offered:
 - Analytical Services (public records, proof of life, lead enhancement)
 - Exhumation Assistance
 - FGG
 - M-VacTM
 - Forensic Odontology
 - Pollen and Soil Analysis
 - Case Reviews and Evidence Reviews
 - Image and Audio Enhancement
 - Rapid DNA
 - Clandestine Grave Search Efforts
 - Forensic Anthropology
 - Mapping, Timelines, Link Analysis





Identifying Unidentified Human Remains: Suggested Best Practices from Law Enforcement's Perspective

Investigative Challenges

A UHR case can be more complicated to investigate than a missing person investigation

- No victimology
- Timeline challenges
- Corresponding missing person reports likely don't exist therefore no family reference samples in CODIS
- Manner of death certification may affect investigative resources
- Resources for identification



Cold Case Strategy

The case's age and the status of remains will dictate possible investigative strategies:

- Reviewing Interviews
- Reviewing Evidence
- Forensic Analyses

For "cold" or "historical" cases, best practice is to bring the case up to modern standards to have visibility on action items moving forward:

- Organize file in searchable format (digitize all reports, photos, and recordings)
 - Create a searchable PDF including a name index
 - Use interns or new agents/detectives
 - Word or Excel best for universal access
 - Create a timeline
 - Schedule interviews if suspects or witnesses are alive; if deceased, confirm alibi



Evidence Review

- Gather all evidence and property
 - Ensure a thorough understanding of all evidence collected
- Repackage and photograph all evidence according to current standards
- Review available evidence to determine evidentiary value
- Evaluate whether new forensic methods can be used for the first time or reexamination using new methods
 - If using a private laboratory, check with your local/state laboratory on protocols. Many need to sign off that they've exhausted their resources or don't have a certain test before sending out for private testing
- Consider reviewing evidence with prosecutor if it's a criminal case
- Outside the box funding for testing should be considered non-profits, families, victim witness



Investigative Tools

- NCIC
 - Enter, Re-Enter, Yearly Validations!
 - Offline requests for potential matches
 - For assistance with offline searches, contact CJIS (<u>ioau@leo.gov</u>)
 - Tip: The NCIC Missing Person File was implemented in 1975. If you are seeking entries prior to 1975, check the Wanted Persons System (WPS)
- NamUs
 - Work with Medical Examiner/Coroner to ensure entry into NamUs
 - Available resources include free forensic services and investigative support
 - For more information, visit <u>https://namus.nij.ojp.gov/</u>

- NCMEC
 - UHR is believed to be under the age of 21
 - Ensure UHR is registered with NCMEC (1-800-THE-LOST)
- ViCAP
 - Manner of death is known or suspected to be a homicide
 - Analysts seek to identify potential links between cases and assist with investigations
 - For assistance, contact vicap@fbi.gov



Investigative Tools (continued)

- Fingerprints
 - If fingerprints are available, contact FBI's CJIS Deceased Persons Identification (DPI) Services
 - DPIServices@fbi.gov
 - Other state and local databases
- CODIS
 - Ensure sufficient profiles searching in the National DNA Index System (NDIS)
 - mtDNA and STRs
 - Review old reports, ask questions!
- Media tips and tricks
 - Suspect communication online
 - Media interviews
 - Billboards





Case Study

1987 John Doe Case Study





Images provided by Virginia State Police

May 27, 1987

Highway workers discovered a partially decomposed body along the southbound shoulder of I-81 South, Mile Post 183. The victim died as a result of a gunshot wound to the right side of the head and right side of the body. Handwritten notes in the victim's pocket referred to a truck and trailer number from J.B. Hunt Trucking Company, a trucking firm out of Lowell, Arkansas.



Glasses for a near-sighted person; the prescription is as follows:

- Right OD 2.25 Spherical 5ph Cylindrical
- Left OS 2.25 Spherical 5ph Cylindrical
- Distance pd = 61mm
- BC 4.25 OV
- Single-vision clear glass, similar style issued by Veteran's Administration

Short-sleeved shirt with a specialist E4 rank (US Army) insignia on the sleeve









Images provided by Virginia State Police



Richmond Times-Dispatch, Thursday, August 4 Police have killer, body, need victim's name

say much about his victim.

him and we're trying to find out who

has been sentenced to life in prison

ROANOKE (AP) — State police in Rockbridge County. But Swartz in prison is the maximum sentence, are using a sculpture to try to deter-refuses to say much about the man The story began in May of 1967. mine the identity of a dead man be picked up last year at a Wythe-whose killer confessed but refuses to ville truck stop.

awy much about his victim.

"The weem heard of any cases like the proof of the proo

"He's made a coopie distantenent in The victim's remains are frozen at a state morpae in Richmood. The aliter, truck driver John Stephen "Sies Soundow get in his bead that Namely to Chambeller, The Soundow get in his bead that Swart, 34, of Chambeller, The Soundow get in his bead that the state of Rockridge County, where he'll be put to death."

Peters has tried to explain to

when Swartz picked the man up in shot him in the Wytheville. They drove to New Jersey, where the man helped unload a shipment from Swartz's truck. The two began to dislike each other, and the man said be wanted more money

"After they came back to Virginia, they went to a truck stop, and the trucker said he [the victim] bought a

abdomen. The man fell and Swartz year-old Caucasian, weig shot him in the head to finish him off,

body days later, the best clue they had written information that led them to the trucking firm of J.B. Hunt in Lowell, Ark. By checking with the firm, police got Swarts's

Since the killer would say little, police got foremic scientist Thomas Goyne to use the victim's skull and shape a clay sculpture of the man. convince his companion that he was not perfect, but it as close as the Swartz that the case is over and life in charge. The man attacked him, artist could come to the 21- or 22



Images provided by Virginia State Police









On March 31, 1988, John Swartz was convicted in Rockbridge County Circuit Court (VA) of first-degree murder and using a firearm in the commission of a felony. He received life in prison. John Swartz is the suspect in multiple death investigations on the East Coast interstate system before 1987.

After the suspect was convicted, Virginia State Police declared they "solved the case".

• Don't forget the UHR. Keep going to give them their name back! This often means you need to reenter in NCIC.



On February 20, 1989, Lead Trooper, Master Trooper Hines, the lead trooper on the case, was shot and killed following a traffic stop on Interstate 81 near Lexington.

• The case lost its 1st driving force.

Convicted killer John Swartz died in prison. Prior to his death, Swartz provided the names "Chris" or "Steve" for the deceased. He changed his accounts of how, when, and where he met the unidentified victim.

The Lead Special Agent promoted and transferred to another location in Virginia.

The case lost its 2nd driving force.



Image provided by Virginia State Police

Jerry Lynn Hines 1940 -1989



Why is 1987 John Doe Still Unidentified?

- All property and evidence destroyed
 - According to the Commonwealth Attorney, all items in this case were to be destroyed on May 16, 1996. "The victim's personal effects have been in the VSP evidence room for nine years. It would appear there is no hope of ever identifying him."
- Virginia OCME cremated the unidentified body
 - No DNA card or tissue/bone saved
- There are no photos of clothing
- Cannot locate dental x-rays
- DNA testing was attempted on cremated remains (2021-2022)
- The clay bust was molded using the skull and jawbone; the bust was destroyed, and the skull and jaw were cremated with other remains



What if 1987 John Doe Were Found Today?

- The modern tools used by criminal investigators for suspect identification can now be used to identify the unknown
- DNA
 - CODIS
 - FGG
- Digital Forensics
 - Tower dumps
 - Geofencing
 - GPS information from tractor-trailer
 - Closed-circuit television cameras





Questions?



Contact Information

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