



Ohio Attorney General's Office
Bureau of Criminal Investigation
Investigative Report



2022-1316

Officer Involved Critical Incident - Ackerman Izak (V)

Investigative Activity: Blood Stain Pattern Examination of Deputy's Clothing
Activity Date: June 27, 2022
Activity Location: BCI – Bowling Green
Authoring Agent: S/A David M. Hammond

Terms and Definitions in Bloodstain Pattern Analysis: ASB Technical Report 033, 1st Ed. 2017

- 2.8 bloodstain -** A deposit of blood on a surface.
- 2.9 bloodstain pattern -** A grouping or distribution of bloodstains that indicates through regular or repetitive form, order, or arrangement the manner in which the pattern was deposited.
- 2.16 drip stain -** A bloodstain resulting from a falling drop that formed due to gravity
- 2.35 transfer stain -** A bloodstain resulting from contact between a blood-bearing surface and another surface.

Case Synopsis:

BCI Agents assisted with an Officer Involved Critical Incident investigation on 06/21/2022. An Allen County Sheriff's Deputy attempted to conduct a traffic stop with a vehicle driven by Quincy Pritchett. A short vehicle pursuit occurred, followed by a short foot pursuit. Initial information provided to investigators was that the Deputy and Mr. Pritchett had a physical altercation. Evidence collected at the scene was consistent with two potential weapons being fired during the physical altercation.

Examination Goals:

Determine if blood spatter evidence exists that is consistent with a gun shot taking place in close proximity to the Deputy's pants or shoes.

Clothing Examination:

On 06/27/2022 at 0845 hours, S/A Hammond retrieved items 2022-1316-12,14, 24 & 25 from temporary locker #2. These items were taken to the Crime Scene Unit processing room for further examination. Examination surfaces were cleaned and disinfected. Surfaces were covered with new, clean, Kraft paper for each item. Personal protection equipment was utilized during the examination.

Item 2022-1316-25 was examined. The packaging was photographed. Two black, police style boots (high top with laces/zippers) were found inside. The shoes were found to be Under Armor brand, size 10.5. The shoes were photographed as they were found (standard digital photographs & infrared digital photographs).

This document is the property of the Ohio Bureau of Criminal Investigation and is confidential in nature. Neither the document nor its contents are to be disseminated outside your agency except as provided by law - a statute, an administrative rule, or any rule of procedure.



Ohio Attorney General's Office
Bureau of Criminal Investigation
 Investigative Report



2022-1316

Officer Involved Critical Incident - Ackerman Izak (V)

Examination of the left shoe located two areas of suspected blood near the toe area. An area of staining was present along the top and side of the big toe area. The area of staining was approximately 2" long by 1" wide. The staining did not exhibit any individual smaller stains or directionality. The stains shape was irregular with defined edges. The overall stain size, shape and distribution was visually consistent with a transfer pattern. This occurs when a blood bearing surface contacts a surface (TMB +, Sample Collected). This area was identified as LS (left shoe) BS 1.

A second stain was located on the left shoe, on the top of the toe area, at the bottom of the shoe laces. This stain was identified as LS BS 2. This stain was symmetrical in shape (nearly round) and large in size (approximately 10 mm). This stain was visually consistent with a passive droplet of blood impacting the shoe from above (TMB +, Sample Collected).

Examination of the right shoe located one additional stain on the right toe area. Like LS BS 2, this stain was symmetrical in shape and large in size (13-15mm). This stain was visually consistent with a passive droplet of blood (TMB +). This stain was identified in photos with RS BS3.

At the conclusion of the shoe examination, the shoes were placed back into their original packaging and then repackaged. The examination surface was disinfected and new Kraft paper was used to cover the area (glove change).

Evidence #	Item	Collected By	Retention
LS BS1	Swab of Suspected Blood – Left Shoe	Hammond	BCI BG
LS BS2	Swab of Suspected Blood – Left Shoe	Hammond	BCI BG



Item 2022-1316-24 was then examined. The paper bag was found to contain a pair of black uniform pants with belt. The pants had been cut up the front of the legs through the crotch area, likely by EMTs during emergency medical treatment.

This document is the property of the Ohio Bureau of Criminal Investigation and is confidential in nature. Neither the document nor its contents are to be disseminated outside your agency except as provided by law - a statute, an administrative rule, or any rule of procedure.



Ohio Attorney General's Office
Bureau of Criminal Investigation
 Investigative Report



2022-1316
 Officer Involved Critical Incident - Ackerman Izak (V)

Examination of the pants for potential blood spatter evidence was made difficult due to a lack of contrast in the material and potential blood, the absorbent material and the ridged texturing in the fabric.



Dirt and grass stains were noted on the right and left knee of the pants. Examination of the pants located various areas of red-brown staining that were large in size that were visually consistent with passive drip stains and transfer stains. These stains were documented in overall photographs but not addressed individually at this time.

Examination of the lower left leg of the pants located two areas of staining. The first area LL BS P1 was located between 3" and 8" above the cuff of the pants, along the left seam. The area was large in size and had a defined edge. The stain appeared to have a textured quality. This can occur when a surface is in contact with bloody fabric or a like item (TMB+, sample collected). Other possibilities exist.

A small area of potential blood stains was located just above LL BS P1. This area of staining LLBS P2 consisted of several (10+) small (1mm), symmetrical suspected blood stains. These stains were clustered together in close proximity. These stains appear to have a similar visual appearance to the larger transfer pattern that was located a few inches away.

S/A Hammond attempted to enhance the stain pattern area with the use of an infrared digital camera. The results were poor due to the fabric composition and texturing.

Evidence #	Item	Collected By	Retention
LL BS P1	Swab of Suspected Blood – Left Leg	Hammond	BCI BG
LL BS P2	Swab of Suspected Blood – Left Leg	Hammond	BCI BG

This document is the property of the Ohio Bureau of Criminal Investigation and is confidential in nature. Neither the document nor its contents are to be disseminated outside your agency except as provided by law - a statute, an administrative rule, or any rule of procedure.



Ohio Attorney General's Office
Bureau of Criminal Investigation
Investigative Report



2022-1316

Officer Involved Critical Incident - Ackerman Izak (V)

Findings:

1. Grass and dirt debris on the front of the pants is consistent with the Deputy being in contact with the ground.
2. A possible transfer pattern located on the lower left pant leg is consistent with the pant leg being in contact with a blood bearing surface.
3. Due to the dark color, texturing in the fabric and potential absorption, no other findings were possible.

Note: this report is based solely upon the information made available to the examiner at this time and may be changed or modified with the discovery of new information.

Per Ohio Criminal Rule 16(K), a copy of S/A Hammond's Curriculum Vitae is attached and constitutes a summary of his qualifications.

David M. Hammond

David M. Hammond
Senior Special Agent,
Ohio BCI

Technical Peer Review:

The following person has internally peer reviewed this bloodstain analysis report for the accuracy of the calculations and/or the principles used in formulating the conclusions. They used the data collected by the authoring agent, examined the report, and viewed the provided photographs. The peer reviewer did not independently examine the scene or the clothing.

S/A Megan Roberts 6/28/2022

Megan Roberts
Senior Special Agent
Ohio BCI

This document is the property of the Ohio Bureau of Criminal Investigation and is confidential in nature. Neither the document nor its contents are to be disseminated outside your agency except as provided by law - a statute, an administrative rule, or any rule of procedure.



Ohio Attorney General's Office
Bureau of Criminal Investigation
 Investigative Report



2022-1316
 Officer Involved Critical Incident - Ackerman Izak (V)

David M. Hammond
Senior Special Agent – Ohio BCI
Curriculum Vitae

Business Address:

Ohio Bureau of Criminal
 Identification and Investigation
 750 N. College Ave.
 Bowling Green, OH. 43402
 email: david.hammond@OhioAGO.gov

Contact Numbers:

Cell: (419) 494-5273

Experience:

- 2022 Ohio Northern University, Adjunct Instructor – Principals of Crime Scene Investigation.
- 2018- Present Bowling Green State University. Adjunct Instructor – Principals of Crime Scene Investigation.
- 2008-Present Ohio Bureau of Criminal Identification & Investigation, Bowling Green, OH. Special Agent assigned to the Major Crimes Division, Crime Scene Unit. Responsible for crime scene examination and investigation of felony crimes.
- 2001-2008 Lima Police Department, Lima, Ohio. Identification Officer assigned to the Detective Division. Duties included crime scene investigation of assigned cases, evidence management and latent print examinations.
- 1995-2001 Lima Police Department, Lima, Ohio. Police Officer assigned to road duties in a marked police unit. Responsibilities included enforcement of criminal and traffic laws, report writing and community-based crime prevention.

Certifications:

- 2010 Master Evidence Technician – Ohio Peace Officer Training Academy**
- 2012 Certified Crime Scene Investigator – International Association for Identification**

This document is the property of the Ohio Bureau of Criminal Investigation and is confidential in nature. Neither the document nor its contents are to be disseminated outside your agency except as provided by law - a statute, an administrative rule, or any rule of procedure.



Ohio Attorney General's Office
Bureau of Criminal Investigation
Investigative Report



2022-1316

Officer Involved Critical Incident - Ackerman Izak (V)

2014 Certified Blood Spatter Pattern Analyst – International Association for Identification

Education:

2016 Tiffin University
Bachelor's Degree in Criminal Justice Administration
With Honors

1994 Lima Technical College (currently Rhodes State University)
Associates Degree Law Enforcement
Ohio Peace Officer Certification

Professional Training

Ohio Peace Officer Training Academy Courses

2003 Core Criminal Investigation (24 hours)
2003 Crime Scene and Evidence Photography (40 hours)
2003 BCI&I Basic Fingerprint Classifications (40 hours)
2003 Sex Crimes Investigations (24 hours)
2003 Computer Crimes First Responder (8 hours)
2003 Fingerprint Comparison Techniques (40 hours)
2003 Evidence Technician (80 hours)
2008 Crime Scene Reconstruction of Shooting Incidents (40 hours)
2008 Blood Stain Evidence (40 hours)
2009 Forensic Aspects of Death Scenes (40 hours)
2009 Missing Persons (4 hours)
2010 Criminal Procedure Update
2021 Statement Analysis (16 Hours)

BCI Training

2009 Forensic Entomology (6 hours)
2009 Forensic Entomology (16 hours)
2009 Basic Bloodstain Pattern Analysis (40 hours)
Training provided by Paul Kish
2009 Shooting Reconstruction (24 hours)
Training provided by Edward Hueske
2011 Forensic Mapping (24 hours)
2011 Advanced Bloodstain Pattern Analysis (20 hours)

This document is the property of the Ohio Bureau of Criminal Investigation and is confidential in nature. Neither the document nor its contents are to be disseminated outside your agency except as provided by law - a statute, an administrative rule, or any rule of procedure.



Ohio Attorney General's Office
Bureau of Criminal Investigation
 Investigative Report



2022-1316

Officer Involved Critical Incident - Ackerman Izak (V)

- 2012 Training provided by Paul Kish
Crime Scene Reconstruction (26 hours)
- 2013 Training provided by Bevel Garner & Assoc.
Forensic Mapping/CAD (16 hours)
- 2013 Training provided by Precision Survey
Forensic Shooting Incident Reconstruction Course (24 hours)
- 2014 Training provided by Forensic Science Consultants,
Michael Haag
Infrared & Ultraviolet Imaging (6 hours)
- 2014 Training provided by Forensic Imaging Incorporated
Death Investigation Basics (7.75 hours)
- 2015 University of North Dakota School of Medicine & Health Sciences
Math and Physics of Bloodstain Pattern Analysis (32 hours)
- 2018 Training provided by the Royal Canadian Mounted Police
Officer Involved Shooting & Critical Incidents (Bevel Gardner)

West Virginia University

- 2010 Bloodstain Pattern Analysis 2.9 ILU
- 2012 Shooting Reconstruction 3.2 ILU
- 2012 IAI Certification Test Prep Course
- 2012 Transition to Leadership / Bridging Generational Gaps (8 hours)
- 2012 Introduction to Forensic Examination of Plastic Bags (8 hours)
- 2012 Advanced Bloodstain Pattern Analysis (16 hours)

Computer Generated Composite Artist

EFIT USA Certified April 26, 2010

National Institute of Justice

- 2010 Mapping and Exhumation of Clandestine Burial Sites (1 hour online)

Memberships and Associations:

- 2011 International Association of Bloodstain Pattern Analysts**
- 2012 International Association for Identification**

This document is the property of the Ohio Bureau of Criminal Investigation and is confidential in nature. Neither the document nor its contents are to be disseminated outside your agency except as provided by law - a statute, an administrative rule, or any rule of procedure.



**Ohio Attorney General's Office
Bureau of Criminal Investigation
Investigative Report**



2022-1316

Officer Involved Critical Incident - Ackerman Izak (V)

Case experience:

In 21 years of crime scene investigation, S/A Hammond has been involved in the investigation of over one thousand felony crimes. Scene experience includes approximately two hundred homicide investigations and hundreds of suicide and questioned deaths.

Instruction provided to agencies:

2012: Ohio Northern University – Guest lecturer case presentation.

2012: North Baltimore Police Department – Basic Crime Scene Considerations for first responding police officers.

2012: Wapakoneta Fire Department – Crime Scene Considerations for fire and emergency medical personnel.

2012: Sex Crimes Scene Investigation: OPOTA Course at Owens Technical College

2013: Bowling Green State University- Guest lecturer case presentation.

2013: Contributor to Ohio Peace Officer Training Academy course curriculum for Crime Scene Investigation.

2015: Bowling Green State University Police Department – Basic evidence procedures for law enforcement officers.

2016: Sandusky Police Department – Shooting Reconstruction

2016: Ohio Coroner's Association Case Presentation

2019: Wood County Hospital – Collection and Preservation of Evidence

2019: Owens Community College – Shooting Reconstruction

2022: Ohio Supreme Court Continuing Education Subject Matter Presenter:

Bowling Green State University – Blood Spatter Pattern Analysis for Attorneys

Awards:

2012 *BCI Investigations Division Award*

Lima Police Department Awards:

- Medal of Bravery
- Lifesaving Award
- Distinguished Achievement Award

This document is the property of the Ohio Bureau of Criminal Investigation and is confidential in nature. Neither the document nor its contents are to be disseminated outside your agency except as provided by law - a statute, an administrative rule, or any rule of procedure.