

Crime Scene Investigation

&

Forensic Evidence

Dr. Henry C. Lee

Professor, University of New Haven

Chief Emeritus, State Police Forensic Lab

Director, Research & Training Center



50 years of Criminal Investigation

Ramsey murder a 'warm case'

Lee a criminologist on a...
CHINESE HOMES
IN THE UNITED STATE

BI kills fugitive

the search for truth

PRINTS BY

www.Marblers.com

digest

LITCHFIELD



Assisted 42 Countries



Investigated Over 8000 Crime Scene

เดลินิวส์
DAILY NEWS

ดร.เฮนรี พิต
ลอเงอ้อยิเงง้า

อยากนำเอง
ศพห่างทอง
แฉฝีมือทำคดี
"ดร.เฮนรี" พิตลอเงอ้อยิเงง้า





MURKIN
ORDER IN BRE

DA M FOREMAN
A RUSH TO JUDGMENT?

Who Murdered Nixon and Ronald C...
KILL TIME

PROBLEM OF EVIDENCE

Kato Kaelin
The Whole Truth

LIVE

The Washington Times
WASHINGTON, D.C., THURSDAY, JANUARY 22, 1998
ASSAULT
OBATION TO INVICTED
STUDY: BOYS, BLAC



www.alrtv.com
tribune
WEDNESDAY
OCTOBER 16, 2002

Benet's
olved murder
WHAT'S TAKING SO LONG?
even weeks
ter, her parents



art Probe
NEW CLUES?
Nationally
forensics
Henry Lee
to take a
evidence
Elizabeth
case, told
reporters
in front of
Lake City
station, S





Religious war
idolized temple
savage serves as
last-life message,
victims' bodies
piled in dry ice
graph by
Wang-Getty

TSUNAMI



DECEMBER 26, 2004

是向國報反對國報前山家報國製「國書志惠章」。
印度某軍部門發言人亞達夫昨天告新法
新社記者：「納爾吉斯」襲擊前

風災 慘過

南亞海嘯

死亡人數料增至5萬 風暴直撲泰國

緬甸重災5省

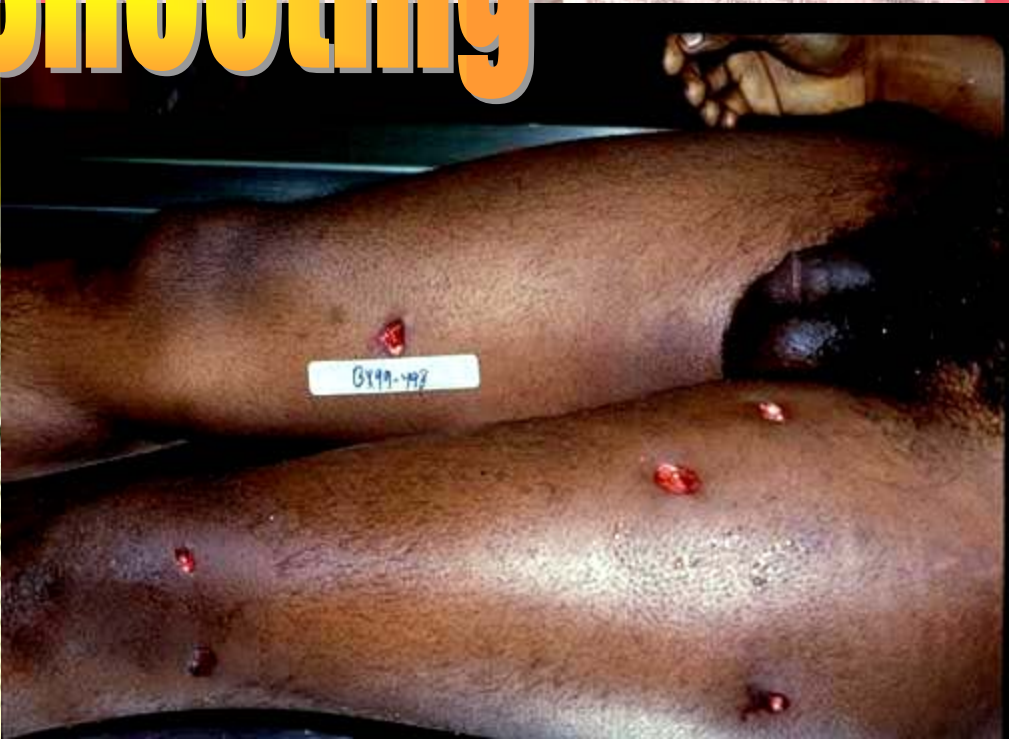
緬甸

熱帶氣旋
「納爾吉斯」
襲擊





Police Shooting



MICHAEL ROSS' VICTIMS



BARIBEAULT

STAVINSKY

BR

Killings to be studied

■ These cases are among those expected to be studied by state and local authorities. The authorities are looking at similarities among the unsolved killings during the past few years.

Name	Age	Date Found
Mary Shirley	29	July 15, 1987
Patricia Thompson	22	March 3, 1988
...

Columbia, Conn., she had moved to Norwich where friends said she was working and saving money to attend Delaware 1987/1988

SERIAL KILLER VICTIMS--COMPARISON

FEATURES	SHIRLEY ELLIS
sex, race, age	WF23, 65"; 168 lbs
appearance	long, straight brown hair

Place Found: Construction
Condition Found: Fresh;
Clothing: clothing in disarray and some cut.

Head trauma, 2 right frontal, 3 scalp lacerations



CASE	NAME	DATE	A/R	TOWN	CAUSE	SEX	AGE	HA
87-0002	MARY SHIRLEY	7-15-87	29/B	WATERBURY	STRANGLER	MA	29	(+)
88-0749	KAREN ANN EYERTT	10-20-88	22/W	WATERBURY	STRANGLER	MA	22	(+)
88-11285	PATRICIA THOMPSON	11-28-88	22/B	HARTFORD	STRANGLER	MA	22	(+)
89-0642	MILORADO ALVARADO	1-20-89	30/M	WATERBURY	STRANGLER	MA	30	(+)

Serial & Mass Killer



Lee Links Suspect, Slayings In City

By TINA A. BROWN
COURANT STAFF WRITER

In captivating testimony Monday, noted forensic scientist Henry Lee testified that Matthew Steven Johnson is a serial killer who lived three years in Hart.



Prosecution paints picture of killing with a golf club

Family avoids courtroom as violent scene is described to jury

By TOM CONNORS
Four Staff Writer

NORWALK — The grisly details of the beating and slaying of a man with a golf club...



南国都市报

熊猫烧香

神探李昌钰 笑谈破案传奇

- 七人巨案案犯攻破了全世界
- 死尸支离是案件独特标志

Lessons Learn from Cases

EXPERT WITNESS

Lawyer: Inmates Won't Pay

Public Defender Assails City's Plan

By CHARLES HENRI
Special Staff Writer

Kath Danner has just two weeks for Albuquerque officials who he is from millions in charges to manage for their state.

"Good luck!"



public safety chief

— 報日界地

權警地總 斯康 領福代里 · 地領人出家專區刑商華

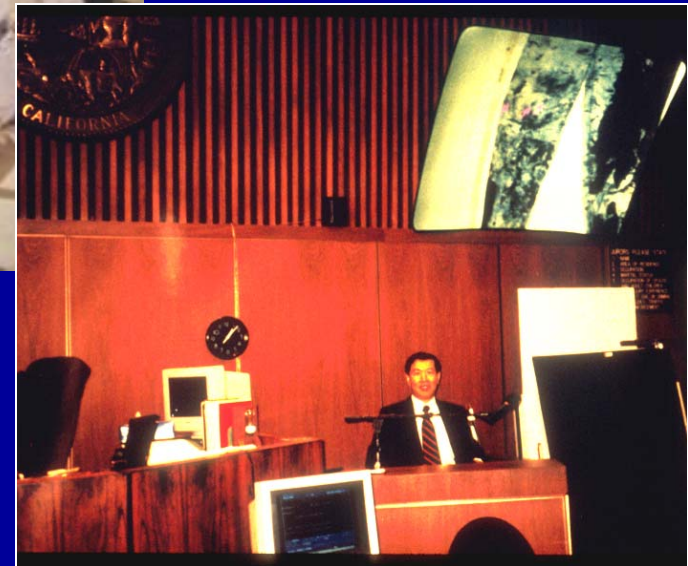
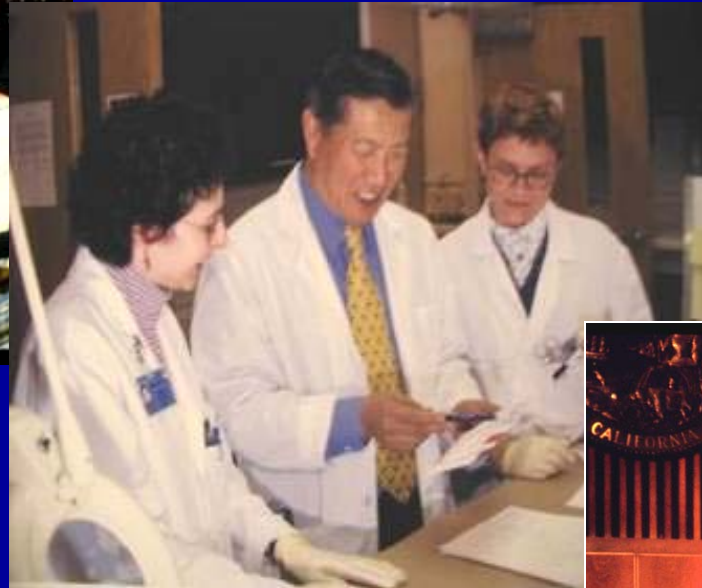
長廳政警州康任就鈺昌李

州級警界最高官職位

Lee takes on new task

Named forensic investigator in state's top cop





Scene



Lab



Court

**Strengthening
Forensic Science
in The
United States:
A Path Forward**

**NATIONAL RESEARCH COUNCIL
OF THE NATIONAL ACADEMIES**

Power of Observation









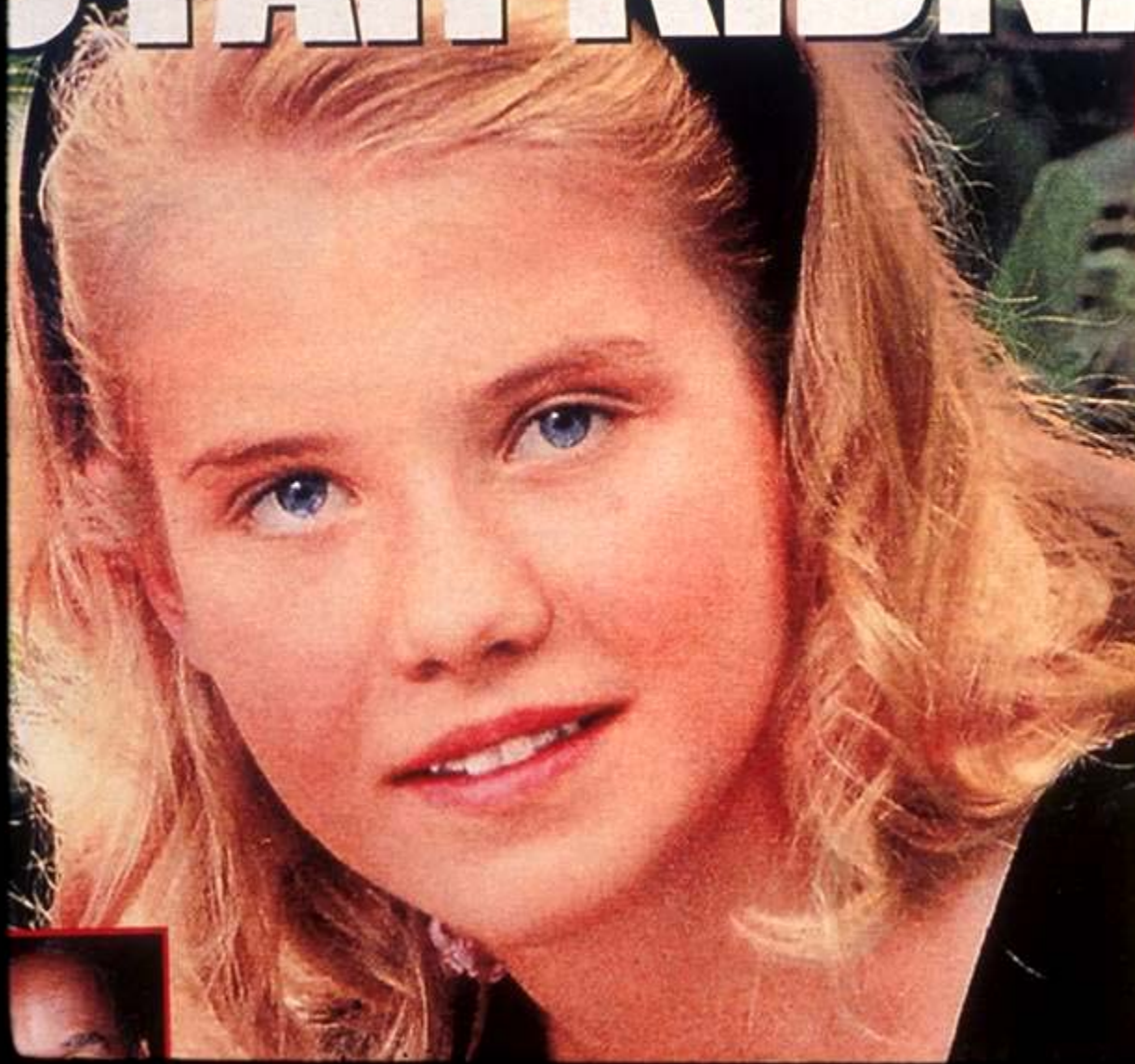
Additional imprints with a multi-circular, the Puma-type pattern developed near the victim's body. The light blue imprints in the center of the photograph were barely visible prior to treatment with bloody print enhancement reagent.



JTAAH KIDNAPPING

WORLD EXCLUSIVE

**INSIDE
COPS'
SECRET
FILES**



KIDNAPPED

Elizabeth Smart

Age: 14

Height: 5' 6"

Weight: 105

Hair: Blonde

REWARD FOR SAFE RETURN

Information Hotlines

801-799-3000

800-932-0190



The Salt Lake Tribune

www.sltrib.com

Utah's Independent Voice Since 1871

WEDNESDAY
OCTOBER 16, 2002

Forensics Expert Arrives to Aid Smart Probe

BY KEVIN CANTERA

THE SALT LAKE TRIBUNE

More than four frustrating months after Elizabeth Smart disappeared, Lake City police remain stymied in their attempts to name a suspect in the abduction — let alone crack the

case. Elizabeth's father, Ed Smart, hopes forensic expert Henry Lee will be able to bring to light something, or point to a suspect, that police have missed.

"I am very hopeful that (Lee) will be able to bring to light something, or point to a suspect, that police have missed," Smart said. "I am thrilled he is here."

Smart's intruder in her family's Federal Heights home. He was recruited by the Smart family months ago.

Police refuse to discuss specifics of evidence in Elizabeth's kidnapping but have said computers from the family's home were examined, with results of the girl's abduction. Police also requested fingerprints from several people who were in the Smart home immediately following the girl's abduction.

Investigators have searched the girl's bedroom for clues and taken a cut screen from a kitchen window, possibly the place where the intruder entered the home. Lee would not say whether he expects to interview Elizabeth's sister, Mary Katherine, the only witness to the crime.

Smart said he was not in a good position to discuss details of the case, but he said he was not in a good position to discuss details of the case.

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NEW CLUES?



Ryan Calverly/The Salt Lake Tribune

Nationally known forensic expert Henry Lee is expected to take a look at evidence in the Elizabeth Smart case, talking to reporters in front of Lake City station.

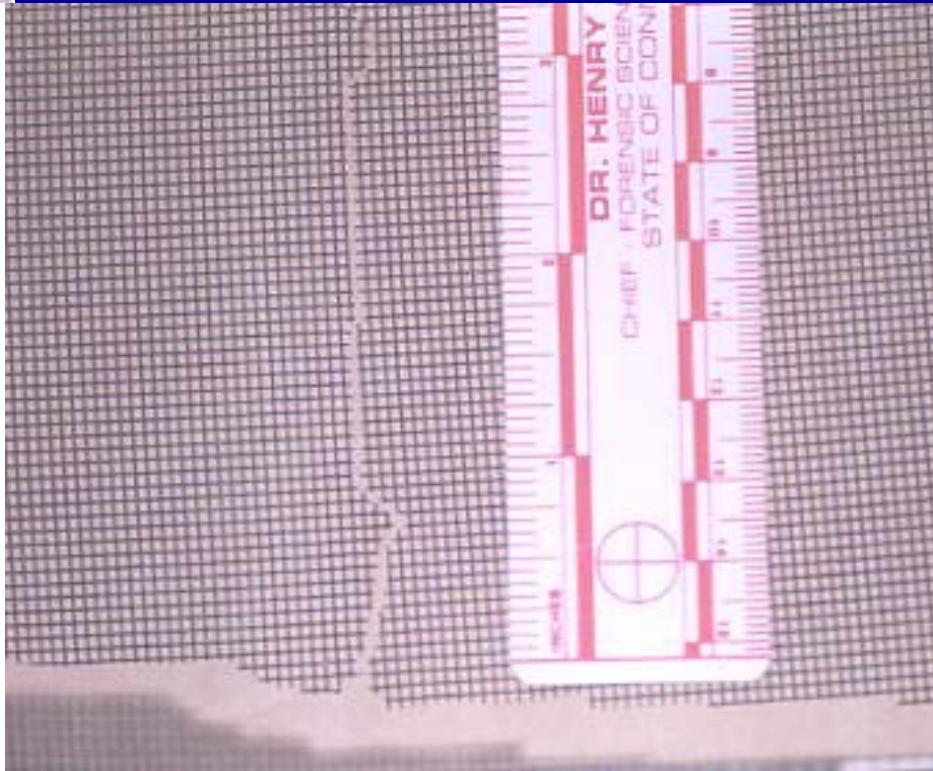
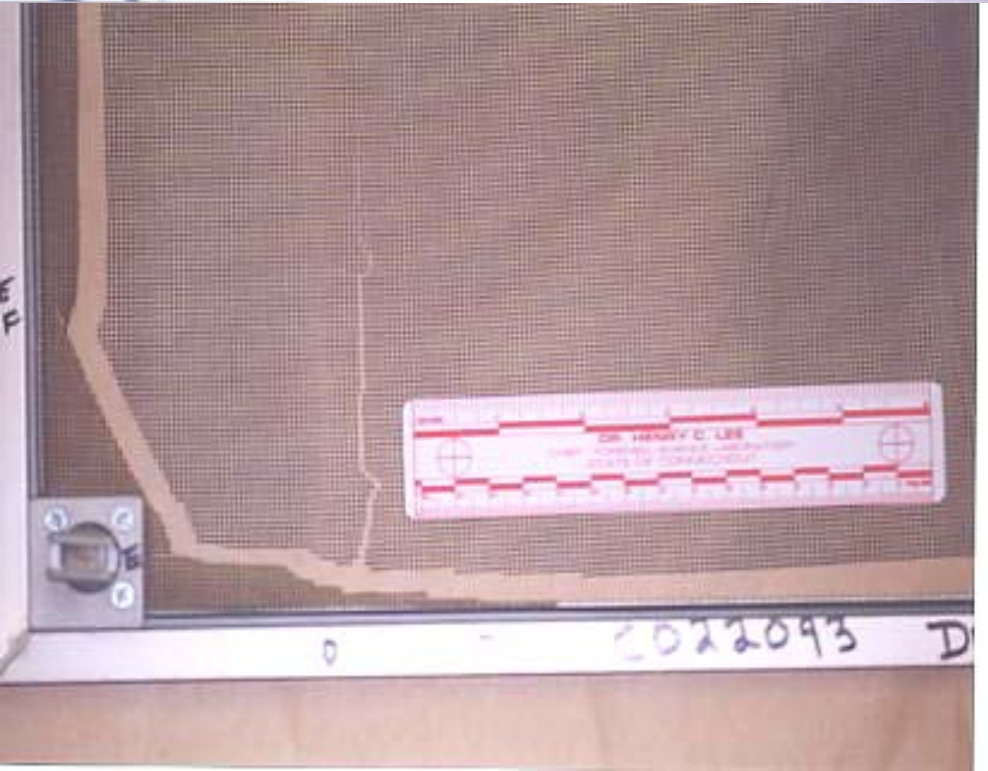
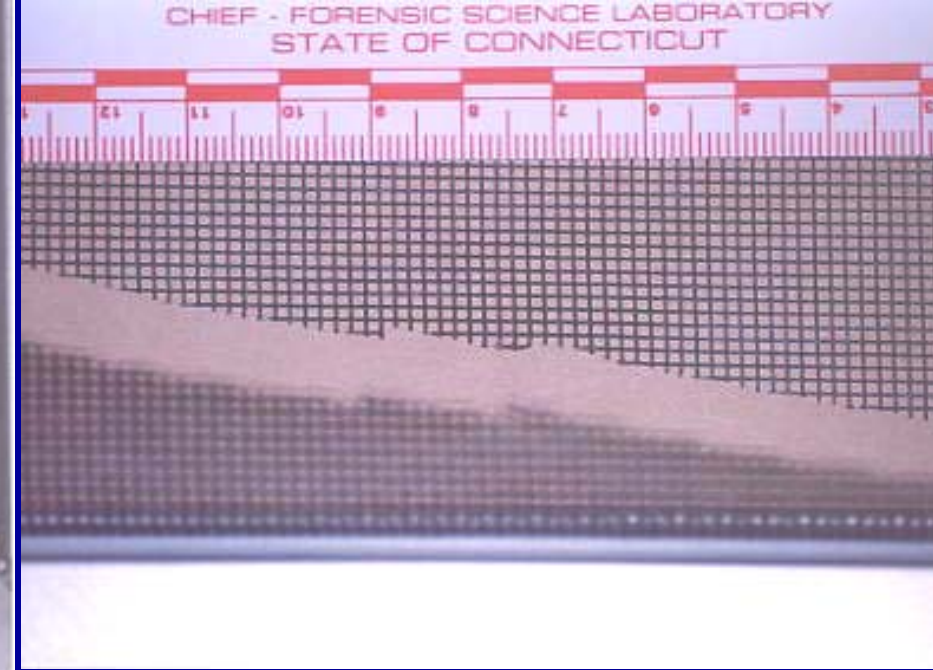
















STATE OF CONNECTICUT



DEPARTMENT OF PUBLIC SAFETY
DIVISION OF SCIENTIFIC SERVICES

Dr. Bruce C. Lee
1. Test Director

Steve Tompkins, Ph.D.
1. Laboratory Officer

CRIME SCENE RECONSTRUCTION REPORT

Laboratory Case No. **11-03-041**

Agency / Individual Requested **Salt Lake City Police Department**

Location of Incident **1509 East Kristianne Circle
Salt Lake City, Utah**

Date of Incident **June 5, 2002**

Requested By **Chief Charles F. Dross**

Date of Request **August 29, 2002**

Date of Report **February 14, 2003**

Introduction

At the request of Mr. Edward Smart, Father of Elizabeth Smart, Dr. Henry Lee was contacted by Captain Gary L. Green of the Salt Lake City Police Department. On August 29, 2002 an official letter of request was sent to Dr. Lee by Chief Charles F. Dross of the Salt Lake City Police Department.

On October 7, 2002, Dr. Lee met with Detectives Mark Sturman and Detective Allison. A set of crime photographs, a brief synopsis of the investigation and a set of Utah Public Safety Crime Laboratory reports was submitted for case review and reconstruction.

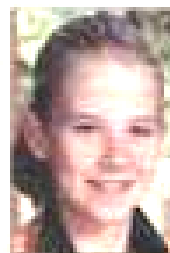
On October 11, 2002, Dr. Lee attended a meeting at the Salt Lake City Police Department. The following individuals were in attendance:

Lee, Henry, D.D., 1111 North Elm Street, Storrs, CT 06268
Tom, Steve, Ph.D., 1111 North Elm Street, Storrs, CT 06268
Dr. Bruce C. Lee, Director

Kidnapped teen found alive, well



AP/WIDE WORLD

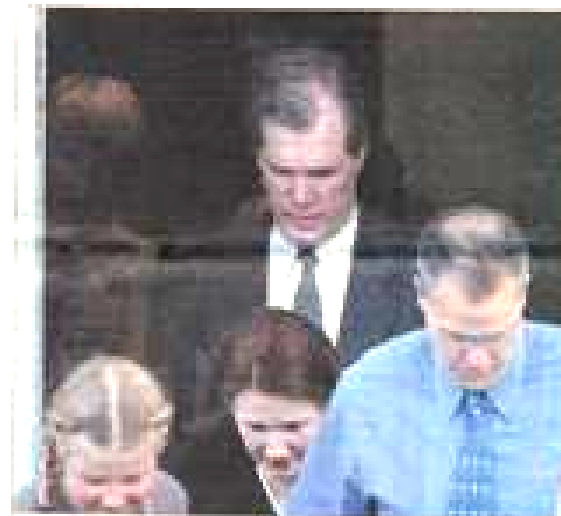


AP/WIDE WORLD

ELIZABETH SMART BACK HOME 9 MONTHS AFTER ABDUCTION

'Miracles do exist,' teen's uncle says as family reunites in joy

2 suspects are jailed after people call police in Sandy, Utah



AP/WIDE WORLD
DAN WOODS FOR AP/WIDE WORLD

SALT LAKE CITY -- The Salt Lake teen, the 13-year-old girl who was abducted from her bedroom nine months ago, was found alive Wednesday morning from a shelter in Salt Lake City near with a father who had been made rich at the family's home. The case was quiet, and the father and the teenager are believed very to a long-awaited reunion with her father.

"Miracles do exist," said Tompkins, who released the details. The father, who is believed to have been in Salt Lake for at least a year, did not speak to reporters in the market near the newspaper and Elizabeth was in good condition and her father was police about her return.

"All of the reports are that Elizabeth is back to her parents for now. Elizabeth has been home for a while," he said. Elizabeth, said in

AP/WIDE WORLD



Bangor Daily News

It's what you need. To know.

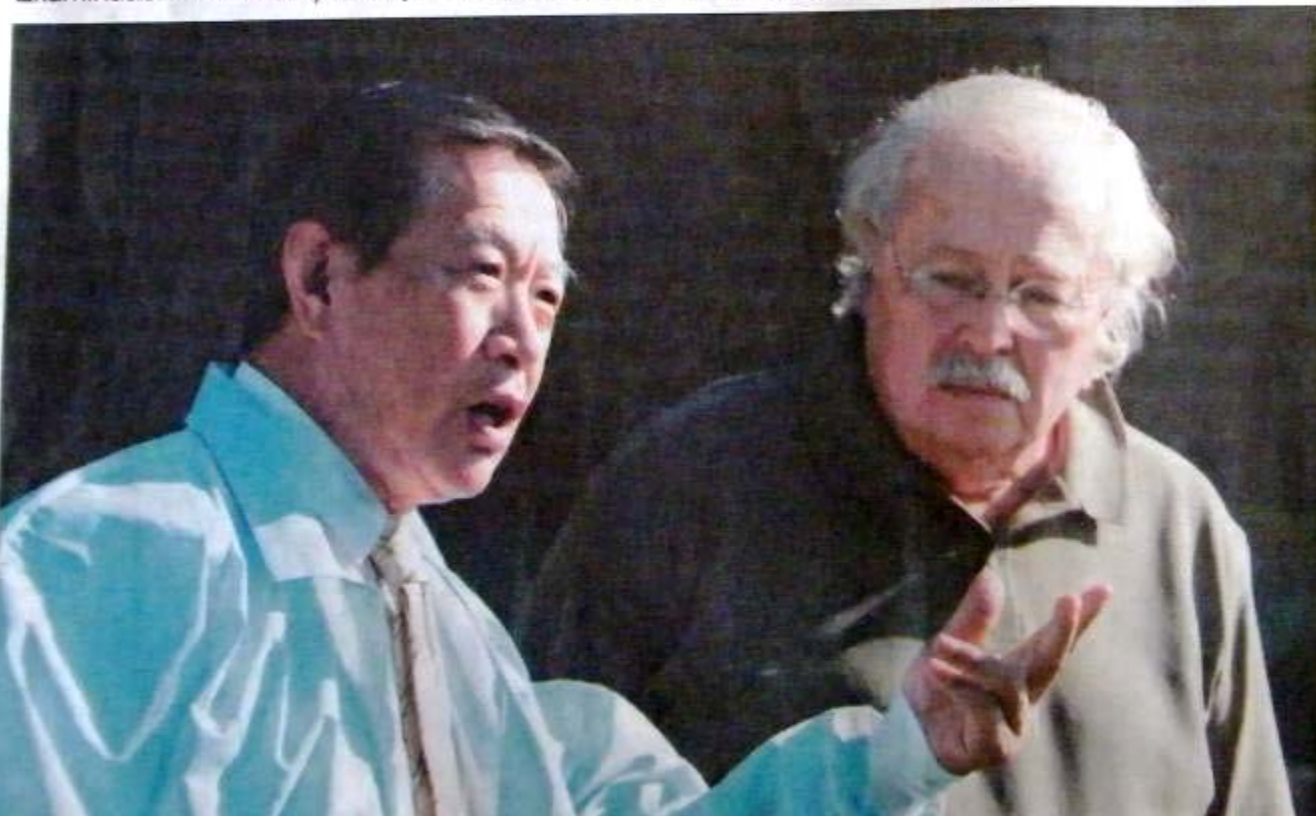
STATE EDITION
bangordailynews.com

SATURDAY/SUNDAY, AUGUST 30-31, 2008

\$1.50

New evidence

Examination of the body of Joyce McLain, victim of 28-year-old homicide, yields surprising results



McCain chooses Palin

Governor sports small-town roots

BY STEVE QUINN
AND CALVIN WOODWARD
THE ASSOCIATED PRESS

JUNEAU, Alaska — In two short years, Sarah Palin moved from small-town mayor with a taste for mooseburgers to the governor's office and now — making history — to John McCain's side as the first female running mate on a Republican presidential ticket.

She has more experience catching fish than dealing with foreign policy or national affairs.

Talk about a rocketing ascent.

In turning



Palin



McCain

Inside



Documentation of the Scene



Scene Documentation

Photography



Notes

Sketches



Video Taping



Audio Recording

FORENSIC REPORT
to
The Independent Council
In Re
Vincent W. Foster, Jr.

Volume I

Meriden, CT
July 23, 1996

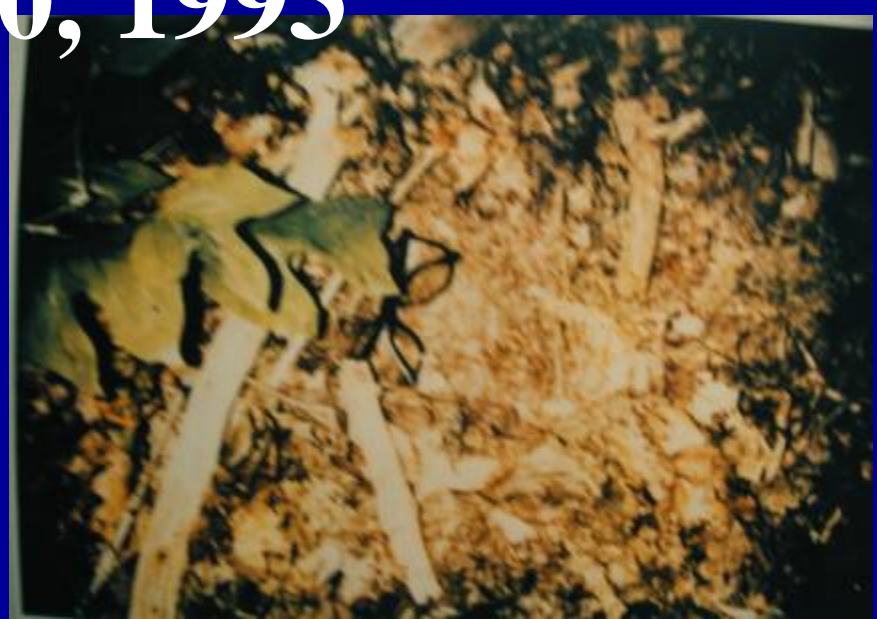
Submitted by
Dr. Henry C. Lee
Connecticut State Police
Forensic Science Laboratory



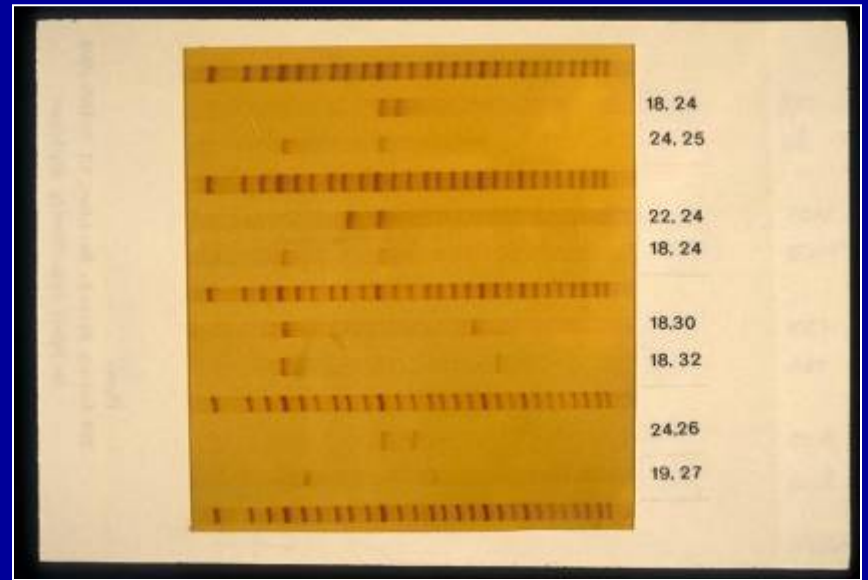
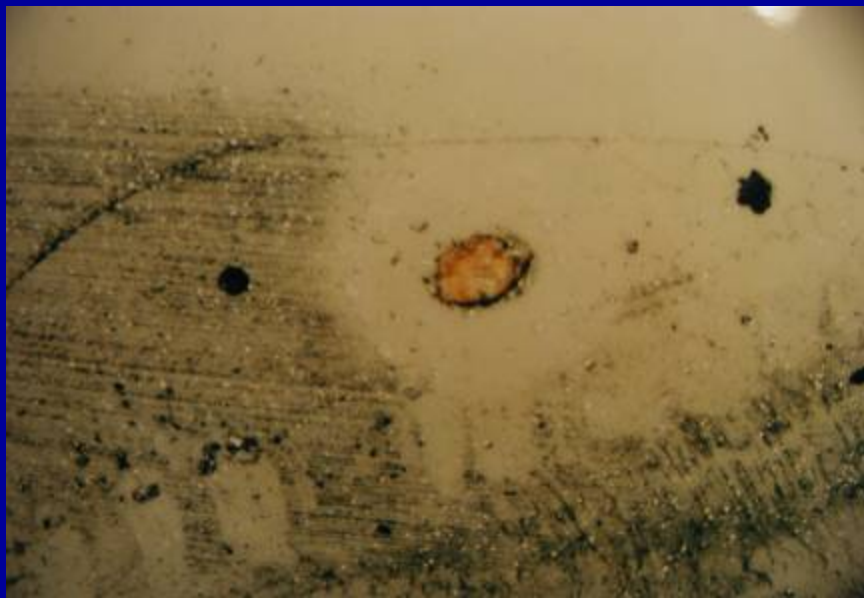
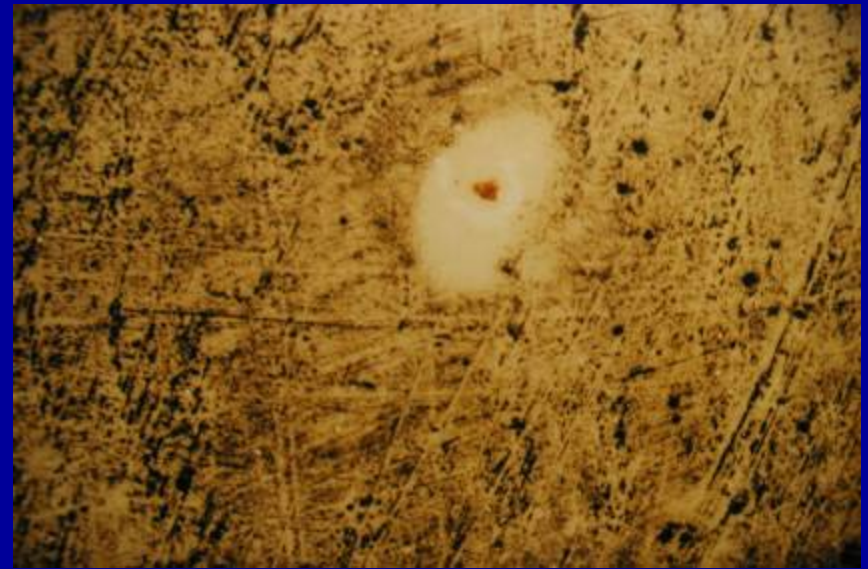
Crime Scene Photographs



July 20, 1993



Latent Lift from Eyeglasses





14

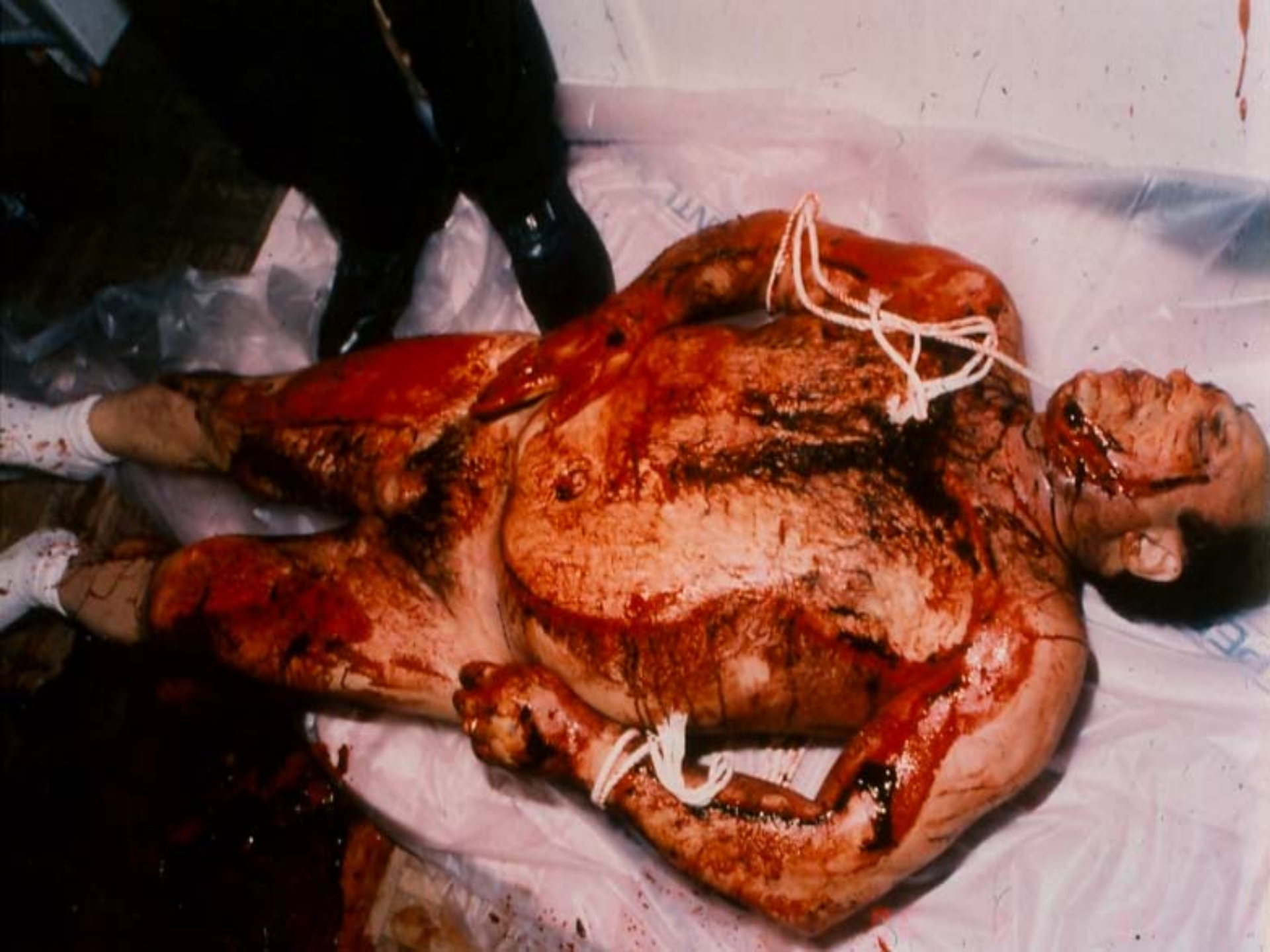
13





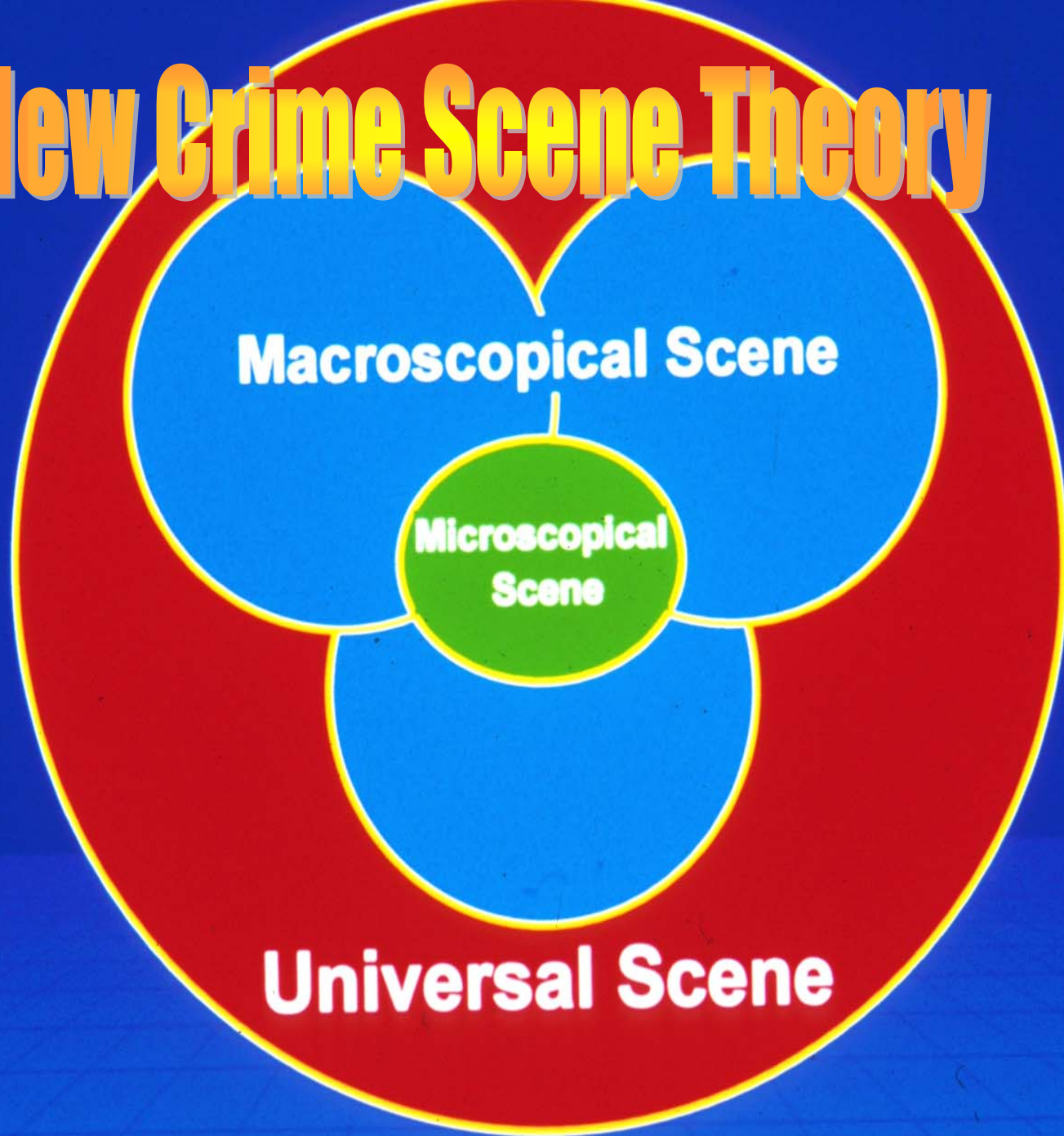




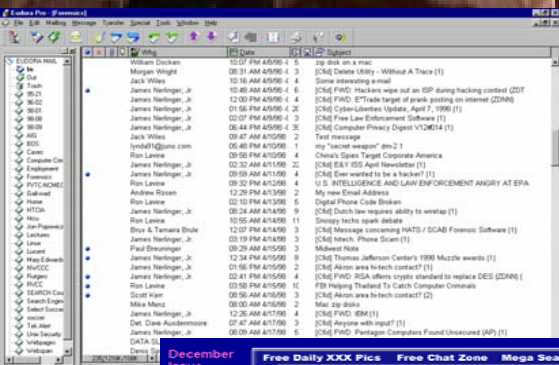




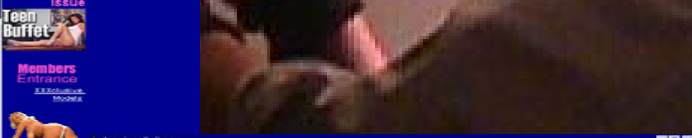
New Crime Scene Theory



Electronic Mail, Chat Room

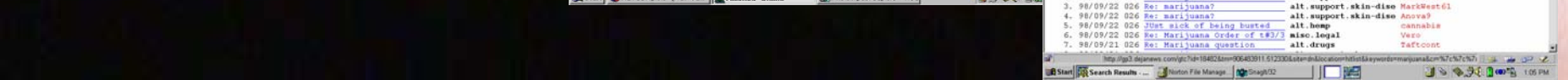


Advertisement for WhiteHouse.com. The ad features the text "Free Daily XXX Pics", "Free Chat Zone", and "Mega Search". It includes a large image of a woman and the text "WhiteHouse.com". Below the main image are smaller images and text: "First Ladies", "THEY'RE FREE XXX TOID", "XXX MOVIES", "Join Now!", "Members", and "ADL Friendly!". At the bottom, it says "If you would like to go to MyWhiteHouse for New, Stocks, and Sports info (click here)".



A screenshot of the AOL chat room interface. The window title is "People Connections". It features a "Find a Chat" section with a list of chat rooms and a "find a chat" search box. The chat room list includes "Town Square", "Arts and Entertainment", "Friends", "Life", "News, Sports, and Finances", "Places", "Romance", "Special Interests", and "General". The "find a chat" section has a search box and a "go chat" button.

A screenshot of a Netpage search results page. The page title is "Search Results - Netpage". The search query is "marijuana". The results show a list of messages with columns for "Date", "Re:", "Subject", "Newsgroup", and "Author". The first message is dated 98/09/22 027 and has the subject "Re: Medical marijuana".





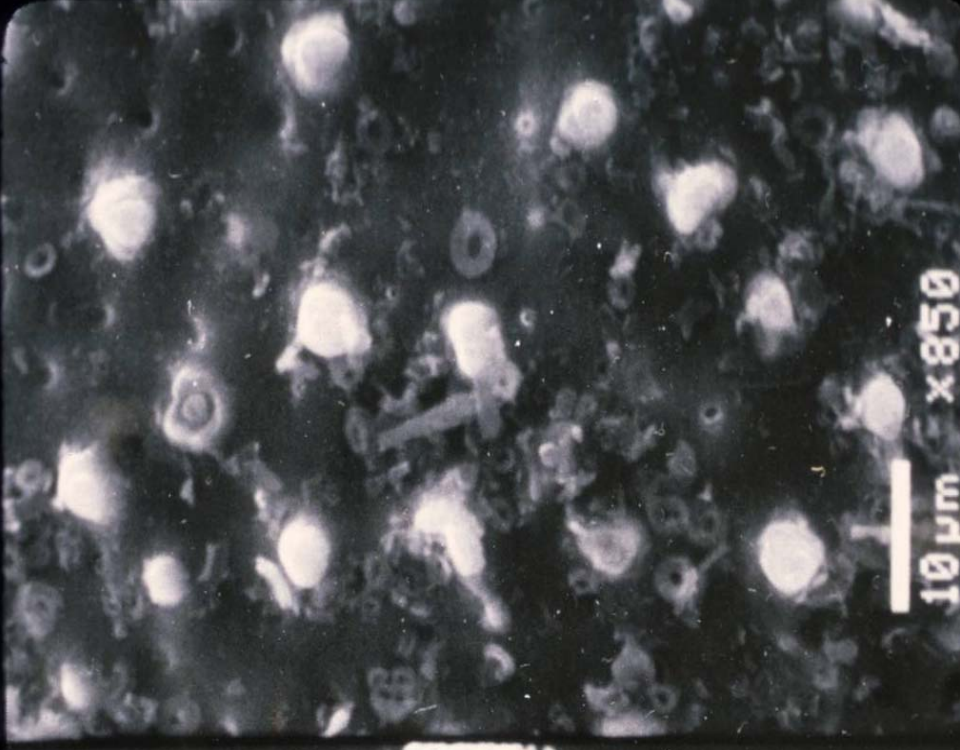
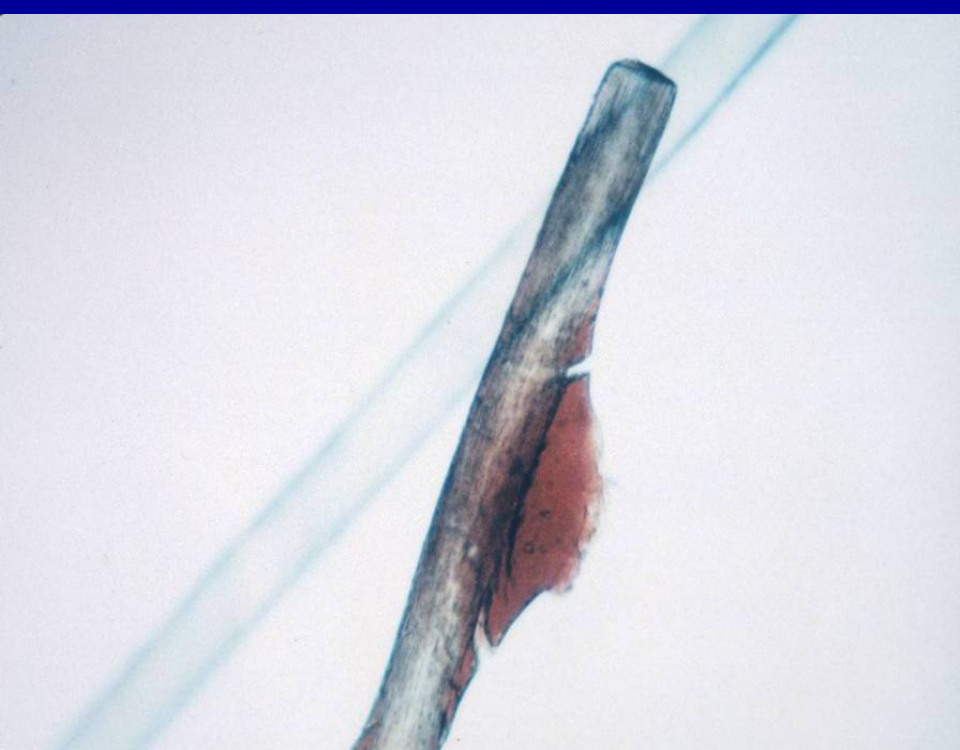
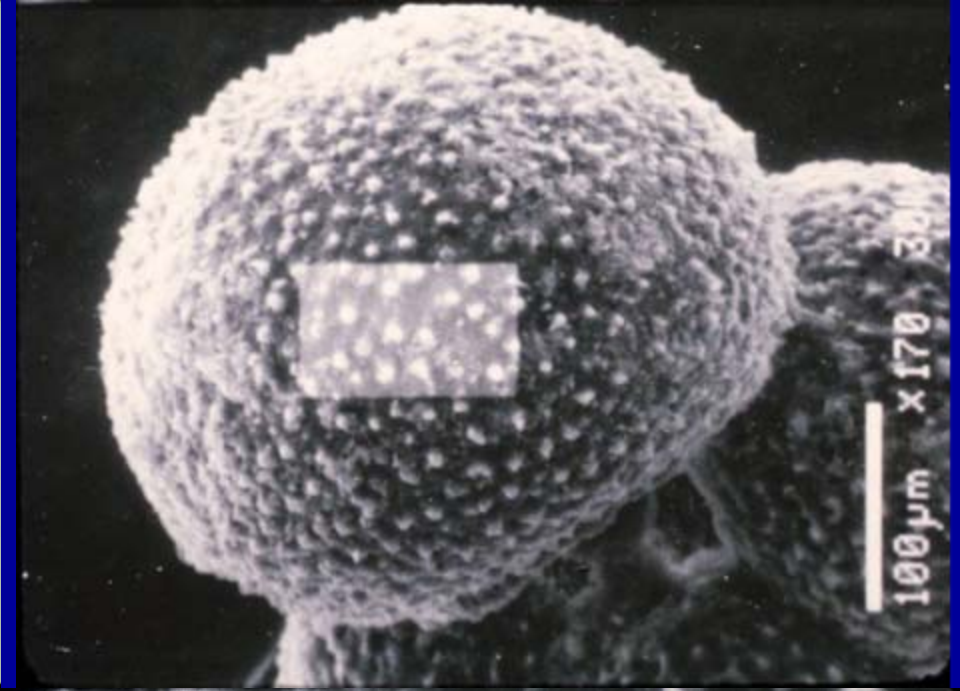
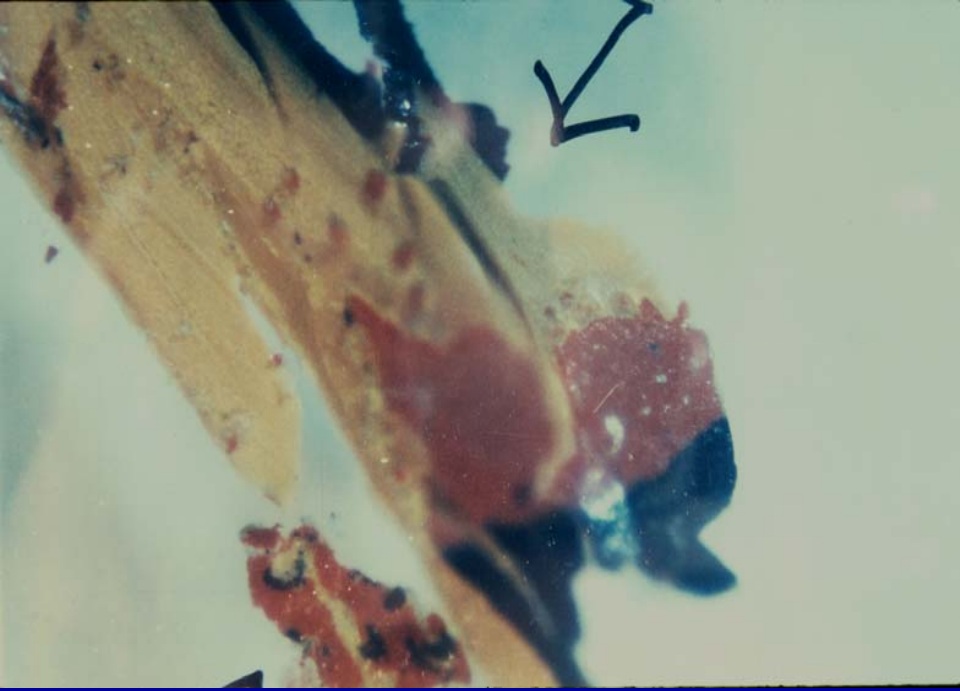
- Images
- Deleted images
- Fax
- Copier
- Printer

Data Mining

- Phone numbers
- Names
- E-mail
- Text messages
- Voice recorder
- Credit Cards
- Bank Records





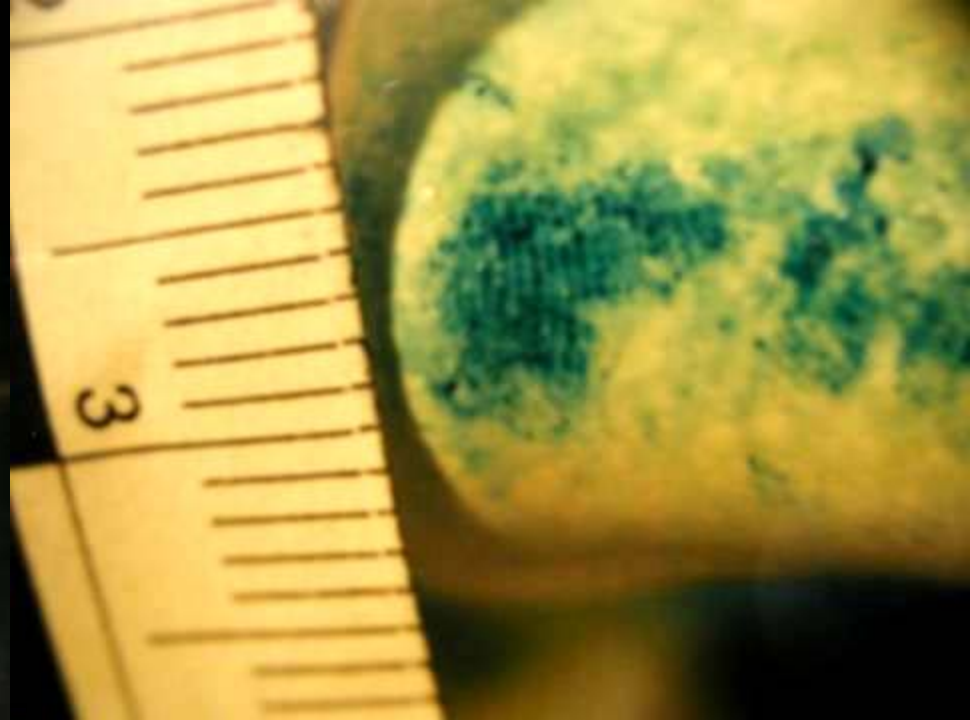


A photograph showing two forensic investigators in blue scrubs and gloves, focused on examining a human body in a morgue. The scene is dimly lit, with a strong blue tint. The investigators are leaning over the body, which is partially visible in the foreground. The background is dark, emphasizing the central activity.

Forensic Evidence on Human Body

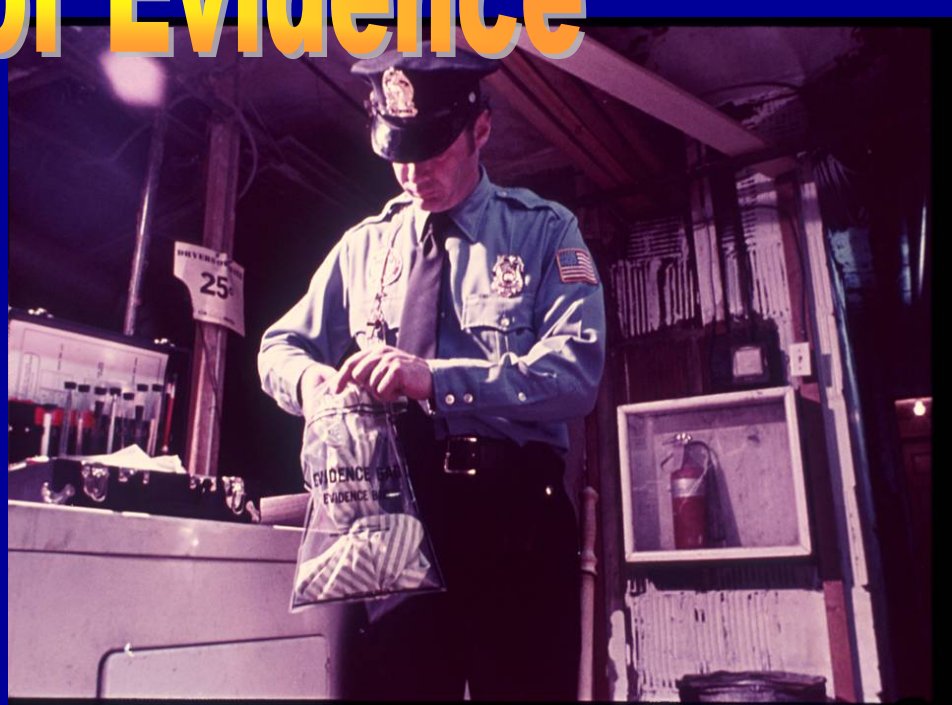
Transient Evidence
Conditional Evidence
Pattern Evidence
Transfer Evidence
Associate Evidence







Collection of Evidence



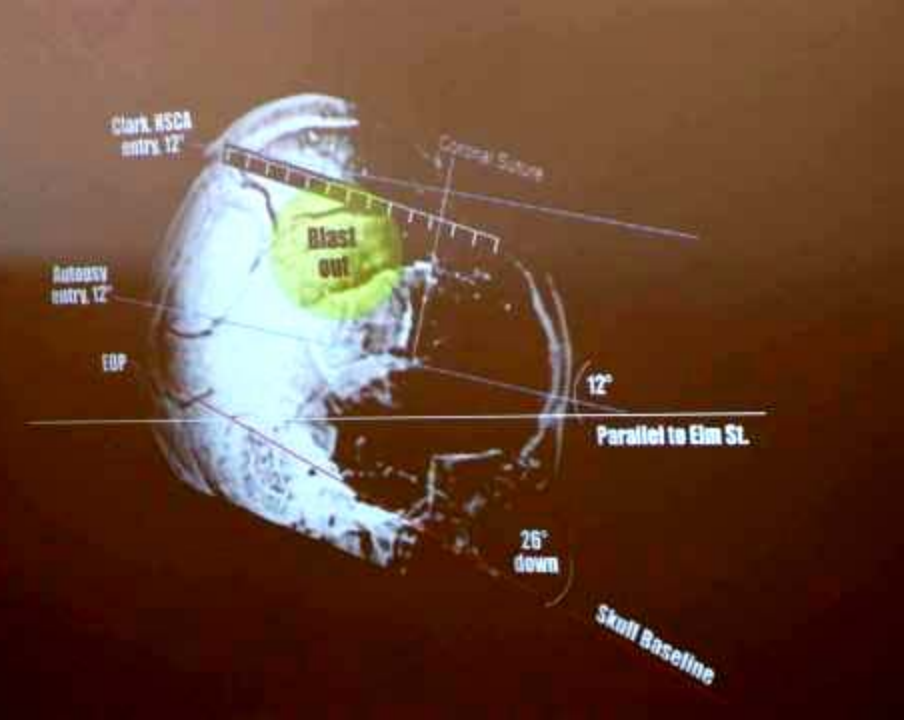




PRESERVATION OF EVIDENCE

AVOID:

- × **Contamination**
- × **Decomposition**
- × **Deterioration**



Southwestern Connecticut's largest daily newspaper is now on the World Wide Web — <http://www.connpost.com>

ONLINE CONNECTICUT POST Thursday, October 1, 1998

REGIONAL NEWS

Lee on JFK assassination:

STAFF AND WIRE REPORTS

It's one of the most intriguing mysteries in forensic science, so it only stands to reason that one of the most intriguing forensic scientists would be asked to take a look at it.

Forensics expert and state Commissioner of Public Safety Henry C. Lee commented at a press conference Wednesday that he had been asked by a committee investigating the Nov. 22, 1963, assassination of President John F. Kennedy to view the evidence.

His conclusion? No evidence of a second gunman, but also a maddening amount of evidence that has disappeared over the past 35 years.

"For a forensic scientist, any of those unsolved, questionable cases [is] always a great challenge," Lee said.

Lee, a consultant to the lawyers who defended O.J. Simpson against murder charges, told a federal review board there were flaws in the autopsy procedure, adding some key materials had also disappeared. "The original autopsy was not handled properly," Lee said in an earlier interview Tuesday.

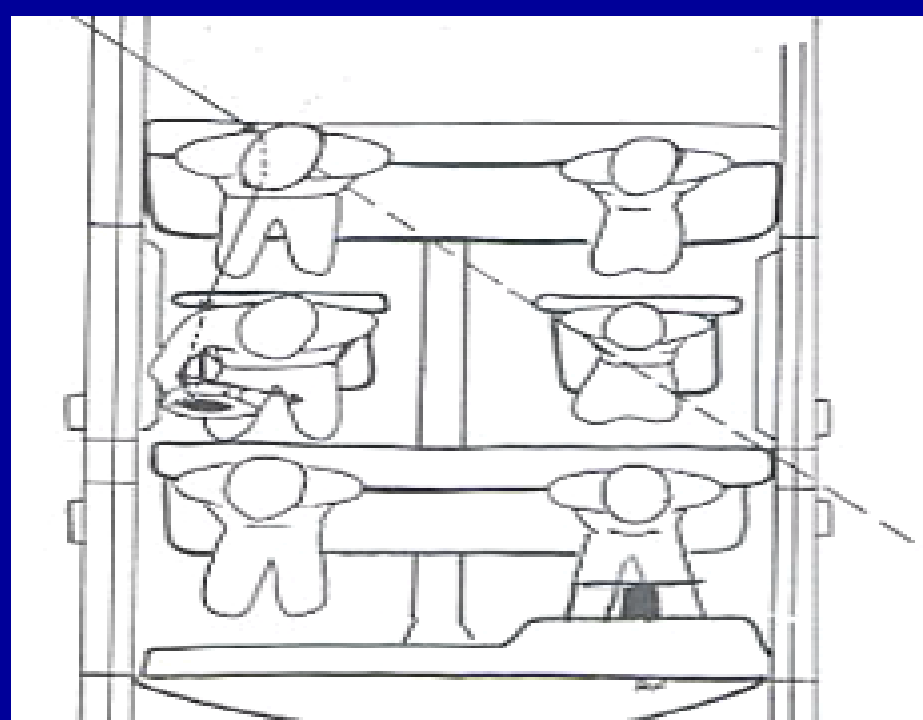
But Lee declined to comment in detail because the federal Assassination Review Board had not yet released its final report.

Lee was asked to review fresh information gathered by the board, appointed by Congress in 1994 to assemble and release public records about Kennedy's assassination.

Lee said the lack of a reliable autopsy record and a breakdown in the chain of custody of evidence are major hindrances in any criminal investigation.



LEE
evidence lost





DNA = JFK + Connally ?

DNA = JFK or Connally ?

C.E. 399 8/23

Any Biological Materials on Bullet ?

PENNY SERRA CASE

On July 16, 1973 Penny Serra was murdered in Macy's Parking Garage in New Haven. Four suspects were developed through witness identification and police investigation. None of them were prosecuted due to lack of evidence. 30 Years later Mr. Grant was identified and convicted of the killing through re-examination of DNA and Fingerprint evidence.



STAIRWELL WHERE
VICTIM WAS FOUND







Old box may be vital in slaying

Serra murder
suspect's future
could be decided

by Christa Lee Rock
Register Staff

NEW HAVEN — The box of luffy pink tissues looked like it had been hit by a truck. A flap of its cardboard casing tumbled to the floor. A prosecutor pulled another crumbled panel from an envelope so a judge could review its 28-year-old markings.

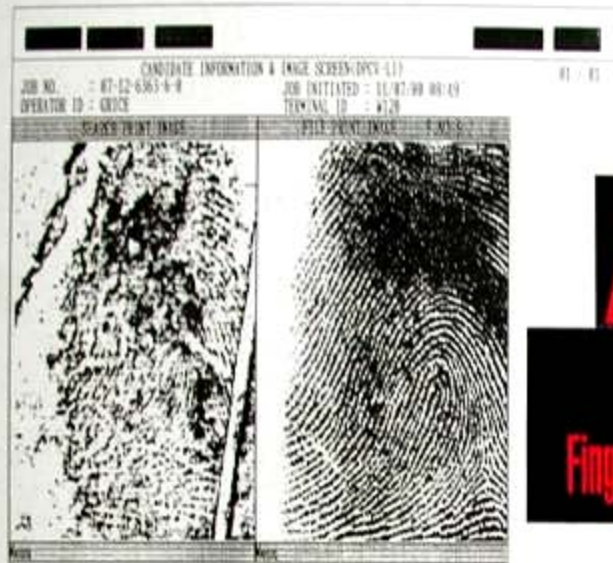
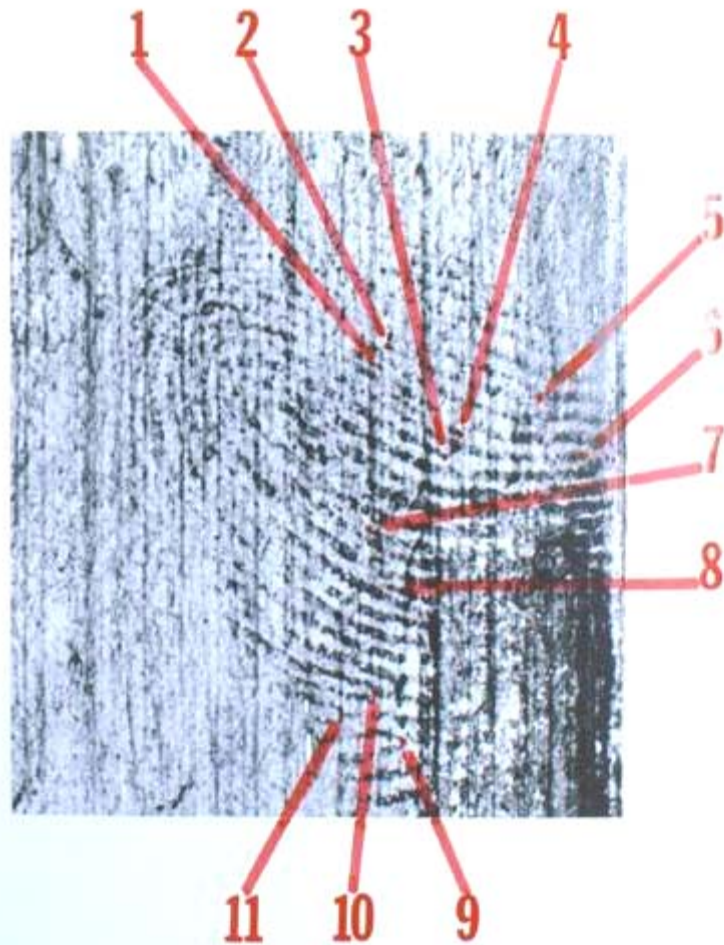
But this sad, crushed box could help decide the fate of Edward Grant, the Waterbury man about to stand trial in the 1973 murder of Concetta "Penney" Serra.

Its torn panel holds what prosecutors believe is Grant's fingerprint, and photos place the once-pristine tissues in the back seat of Serra's Buick Electra.

But Grant's team of three public defenders is challenging the admissibility of the tissue box and potentially dozens of other pieces of evidence prosecutors may use in a trial set to begin this spring.



LATENT FINGERPRINT



CANDIDATE-PRINT INFORMATION

BANK	KEY NO.	F. NO.	SCORE	CONTRIBUTOR	PATTERN	QUALITY	SEX	DOB
*** Top of Information ***								
001	00	00420050	06	01310	FLWVE-LLLV	AAAB-AAAB	M	42
002	01	14020552	06	00727	WDLA-LLLL	BAAB-ABAB	M	50
003	01	10240507	06	00656	VSDD-LLLL	AAAB-AAAB	F	57

Time: Nov 7 10:21:10 2000



SEARCH OF LATENT IN AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM DEVELOPS SUSPECT

AFIS

A New Generation of
Fingerprint Identification





day, May 9, 2002

FROM THE FRONT PAGE

ERRA: DNA expert says it's Grant's blood

ed from Page A1

on Wednesday, Ladd and Assistant State's Attorney G. Clark attempted to

of blood splatterings. The lab's director, Elaine Pagliaro, testified Wednesday that two Type O spots also turned up on the back of Ser-

vial of blood labeled "E. Grant" to two snippings from the handkerchief.

The test was a gamble. Longer strands of DNA tend to break with

blue plastic gloves before handling the cloth in court. Ladd said such outside genetic material can cause "mixing," or the appearance of more than one person's DNA in

said.

So they tested again, in August 2001. They took more samples from the holy hanky

ARREST IN SERRA MURDER CASE



New clue pointed to alleged killer

Affidavit puts Serra suspect in city July 16

By Helen Bennett Harvey
Register Staff

NEW HAVEN — For months, blood and a fingerprint pointed to the Waterbury man accused of killing Concetta "Penney" Serra 26 years ago, but it was a key clue uncovered last week that may have cemented the case by showing the suspect did business here at the time of the slaying.

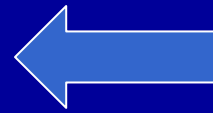
Edward R. Grant, 56, was



Stage I
Scene



Recognition
Documentation
Collection
Preservation



CSI
Detective
Forensic
Scientist

Stage II
Lab



Evaluation
Examination
Interpretation



Forensic
Scientist

Stage III
Court



Presentation
Reconstruction
Summation



Lawyers
Judges

The Evening Sentinel

Volume 115 No. 190

Monday, August 14, 1989

35¢ per copy, \$2.10 per week or \$1.55 weekly by carrier

3 killings shock Valley

Police quiz kin in deaths

By THE EVENING SENTINEL STAFF

DERBY—Valley residents were recovering today from the shock of an apparent triple murder that was discovered late Saturday in a quiet neighborhood not far from Route 8 in Derby.

Peggy Ferrara, 32, discovered the gruesome slayings of her adoptive mother, Mary Ferrara, 72, her adoptive brother, Joseph Ferrara, 44, and her eight-year old daughter, Nina Ferrara, in Mary Ferrara's home at 228 Emmett Ave.

All three bodies were viciously slashed, The Sentinel has learned.

Derby police, who were called to the scene by Peggy Ferrara, immediately sealed off the house and turned the in-

And police declined to say if she was in custody today. However, she could not be located.

More than 40 state and Derby police officers are conducting an around-the-clock investigation in an attempt to apprehend the killer or killers of what has been described as one of the most brutal killings in the history of the Valley.

Although police have released no details, The Sentinel has learned that Mary Ferrara's body was found in a hallway on the first floor of the story-and-a-half Cape Cod house.

The body of her son was discovered in a bathroom with the shower still running. The child's body was found in a downstairs bedroom, wrapped in a blanket.

According to state police, Nina



Photos by Edward Cotter Jr.

Derby police, in photo above, seal off Emmett Avenue in the vicinity of the house of Mary Ferrara, where an apparent triple

photo below, police place the body of one of the victims in the state medical examiner's station wagon for removal to Farmington



Transient Evidence



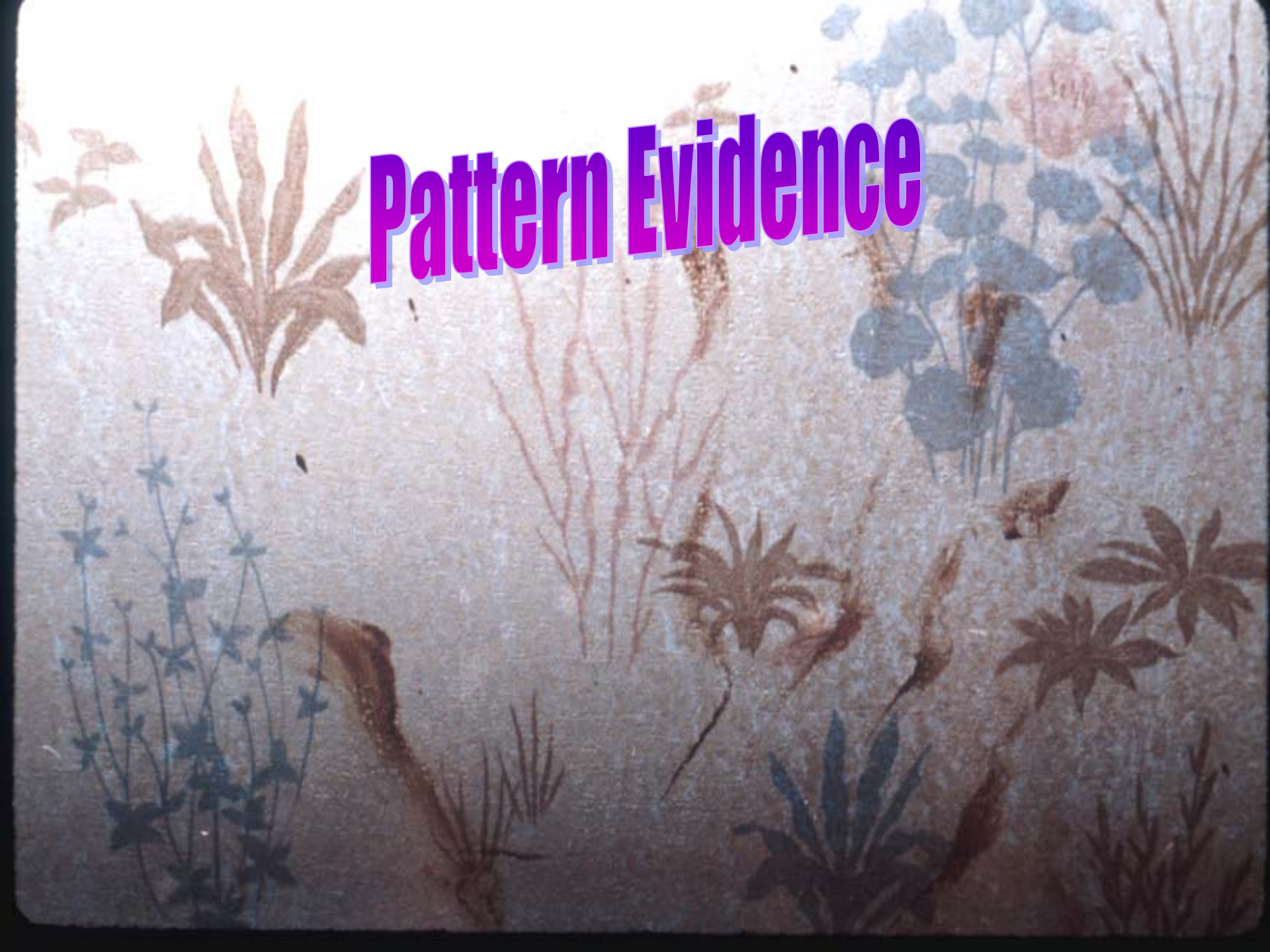
Transfer Evidence







Pattern Evidence



Conditional Evidence



Stabbing deaths stun Valle

Continued from Page 1

ncy.
The senior Joseph Ferrara suffered a fatal heart attack about 10 days ago.

His widow, a registered nurse, worked for many years at Griffin Hospital until her retirement. She has been active as a volunteer at the hospital for the past several years.

Her granddaughter was to have entered the third grade at Irving School later this month. A source said Peggy Ferrara was planning to move to Florida, where her birthplace is, although school officials had not been officially notified of any plan to withdraw the child from school.

The youngster was well known in the Hawthorne Avenue neighborhood and was often seen riding her bicycle. She was a constant visitor at the Derby Neck cemetery.

On Sunday, Derby and state police went house-to-house in teams throughout the neighborhood in an attempt to uncover any evidence that might have a bearing on the crime.

The entire block in which the Ferrara home is located between Mountain Street and Colt Street was blocked to traffic. State police brought in a tracking dog in an attempt to ferret out any any leads that would be helpful in solving the crimes.

The investigation is being directed by Sgt. Roland Harrigan, according to Sgt. Scott R. O'Mara, public relations officer for the state police.

The Major Crime Squad van was used for processing evidence. Dr. Henry Lee, internationally-known forensic expert from the state police crime laboratory, and a large number of his staff were at the

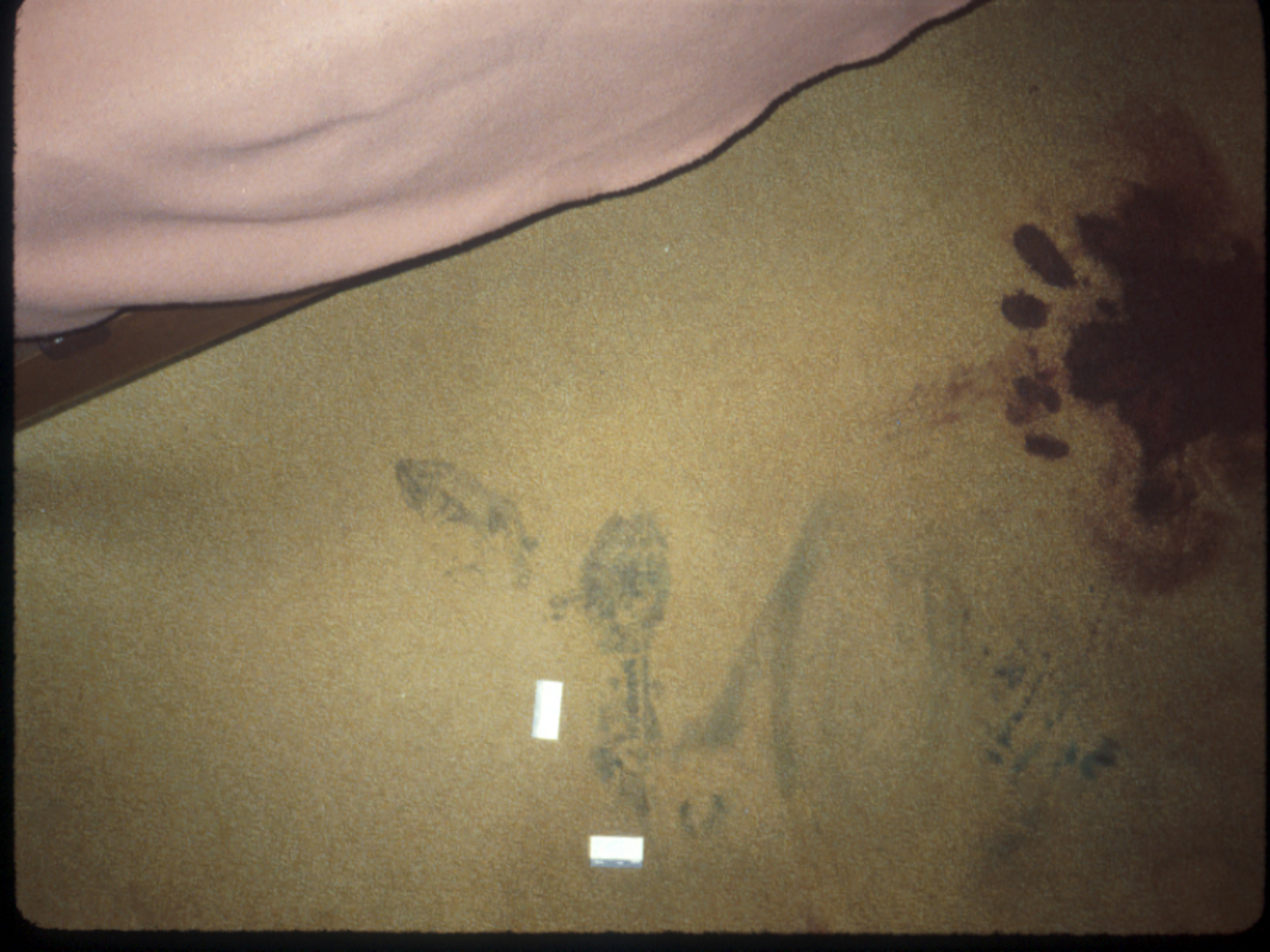
scene throughout the day.

A command post was set up in the aldermanic chambers headquarters and special lines were run into the building for the use of the investigators. Shortly before noon Sunday, bodies were taken from the scene and placed in the state mediciner's station wagon and taken to Farmington for autopsies.

State and Derby police have asked anyone who might have been in the area Saturday night to contact the police by calling 735-7811.

Throughout Sunday, police were seen going into the command post in City Hall to give statements to the police. Police questioned Joseph Ferrara at length. She could not be reached for comment this morning.

The only other immediate survivor of the family is a 12-year-old Carol Viola of Fairfield.





SPEC 7215

↑
EAST

SPEC 7216

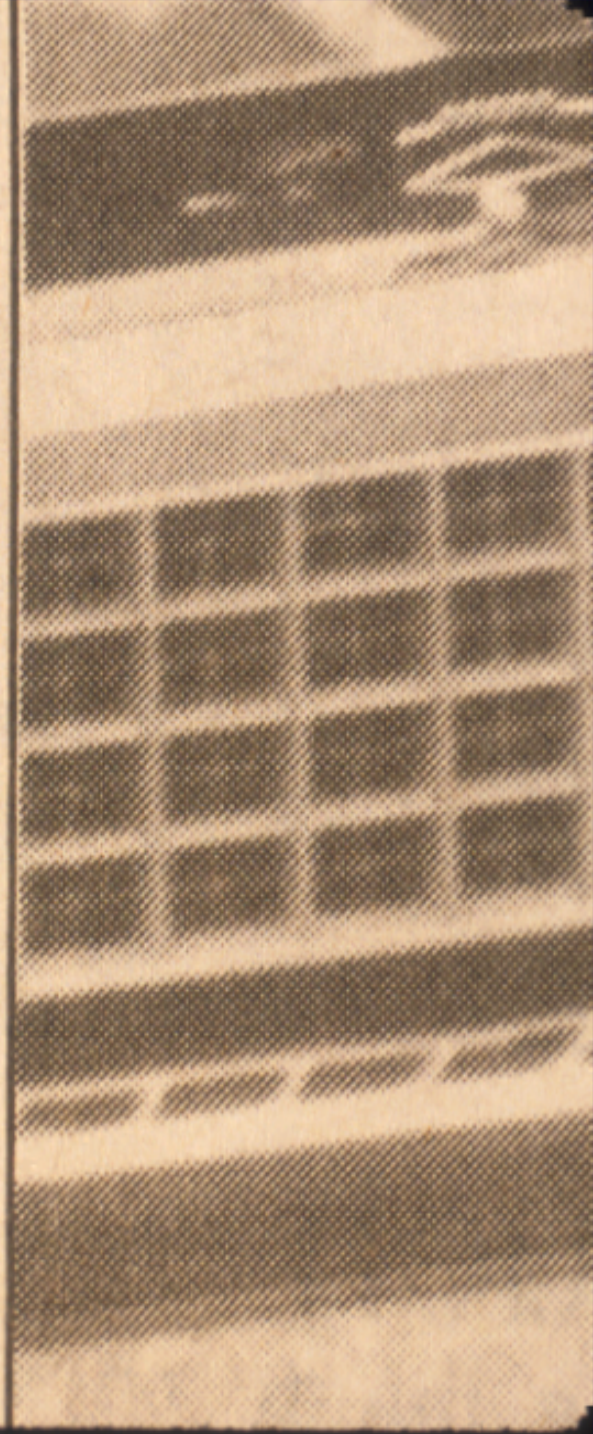


As of 11 a.m. today, police were continuing an intensive investigation to find the killer or killers responsible for the triple deaths, Sgt. Scott O'Mara, a state police spokesman, said.

Dr. Henry C. Lee, state police forensic expert, and other state police are evaluating forensic evidence gathered at the scene, but have not indicated how close they are to solving the crime or making an arrest.

The triple killings were discovered by Peggy Ferrara, 32, of 350 Hawthorne Ave., Derby, at 11:50

Saturday. Her daughter, Nina,





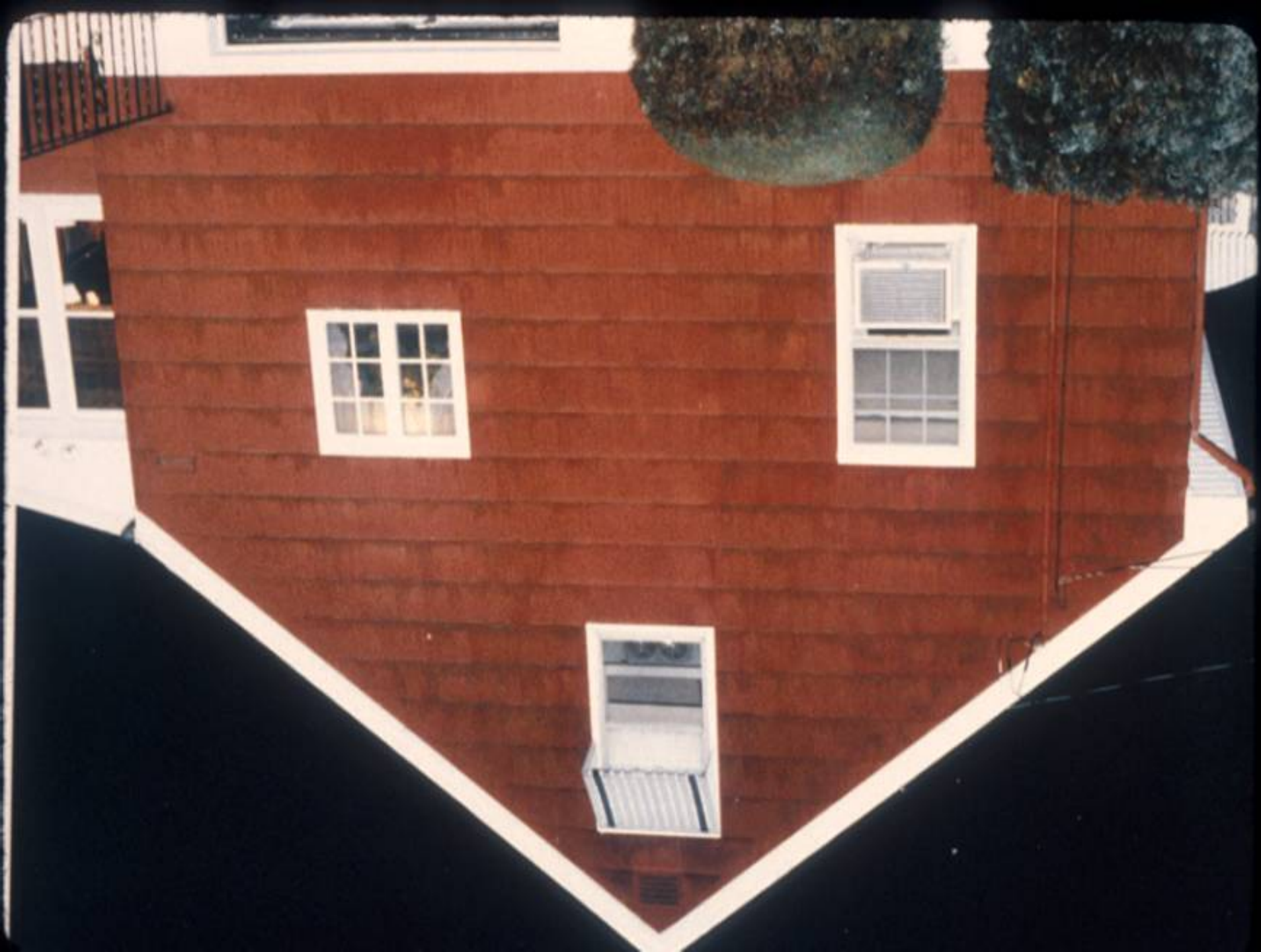
No clues in triple slaying

Neighbors shocked
as police intensify
inquiry into motive

By **DEBRA ADAMS**
Courant Staff Writer

DERBY — More than 30 state and local police officers are investigating the stabbing deaths of an 8-year-old girl, her grandmother and her uncle, state police said.

Despite the increased manpower, there was little progress in the investigation of the Saturday night slayings of Mary Ferrara, 72; her





Condition?

Time ? Working ?

Transfer (Trace) Evidence

Blood

Hair

Fiber

Tissue

Human

Human, Body

Gray Nylon

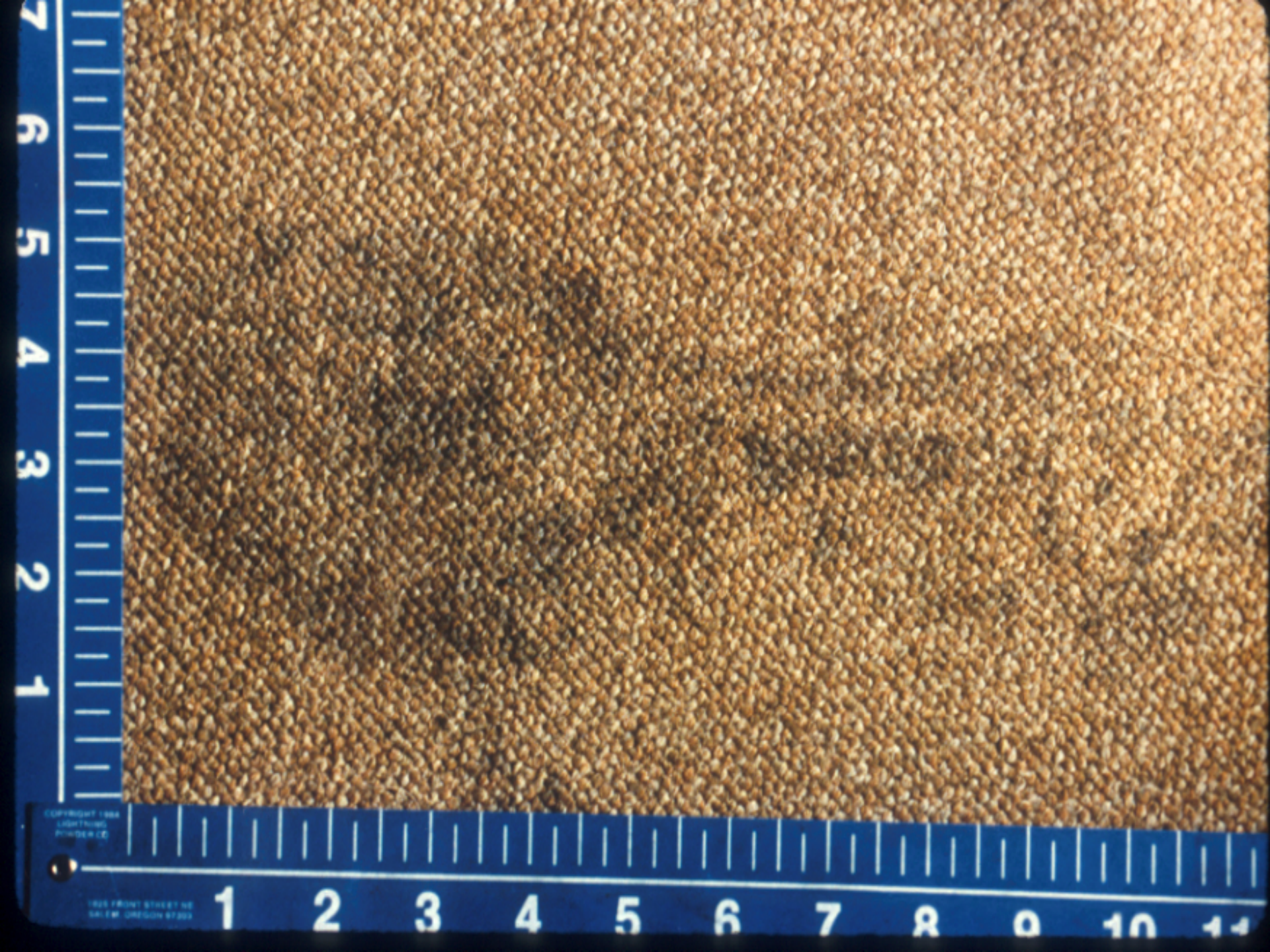
Skin

Victim

Suspect

?

Suspect



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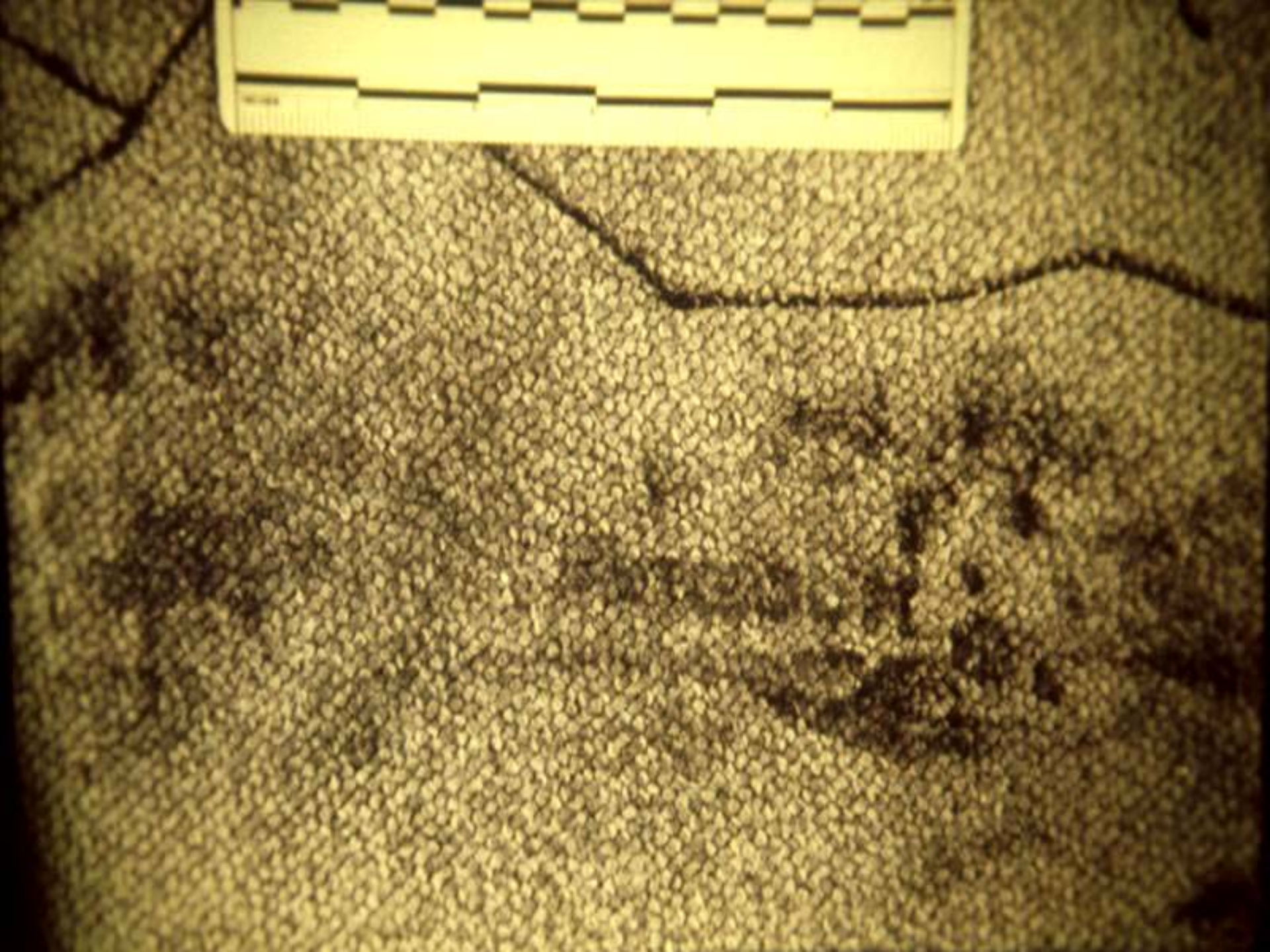
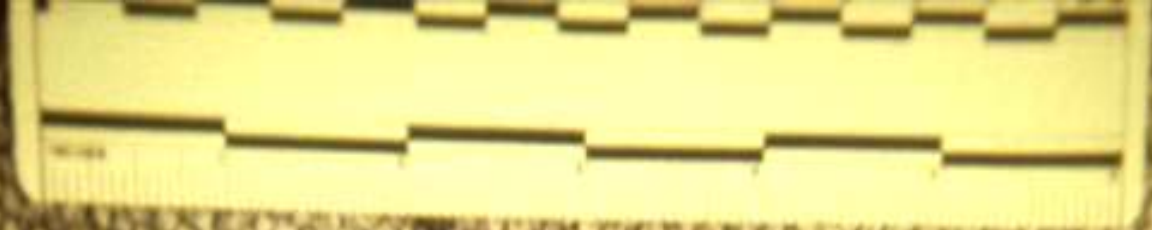
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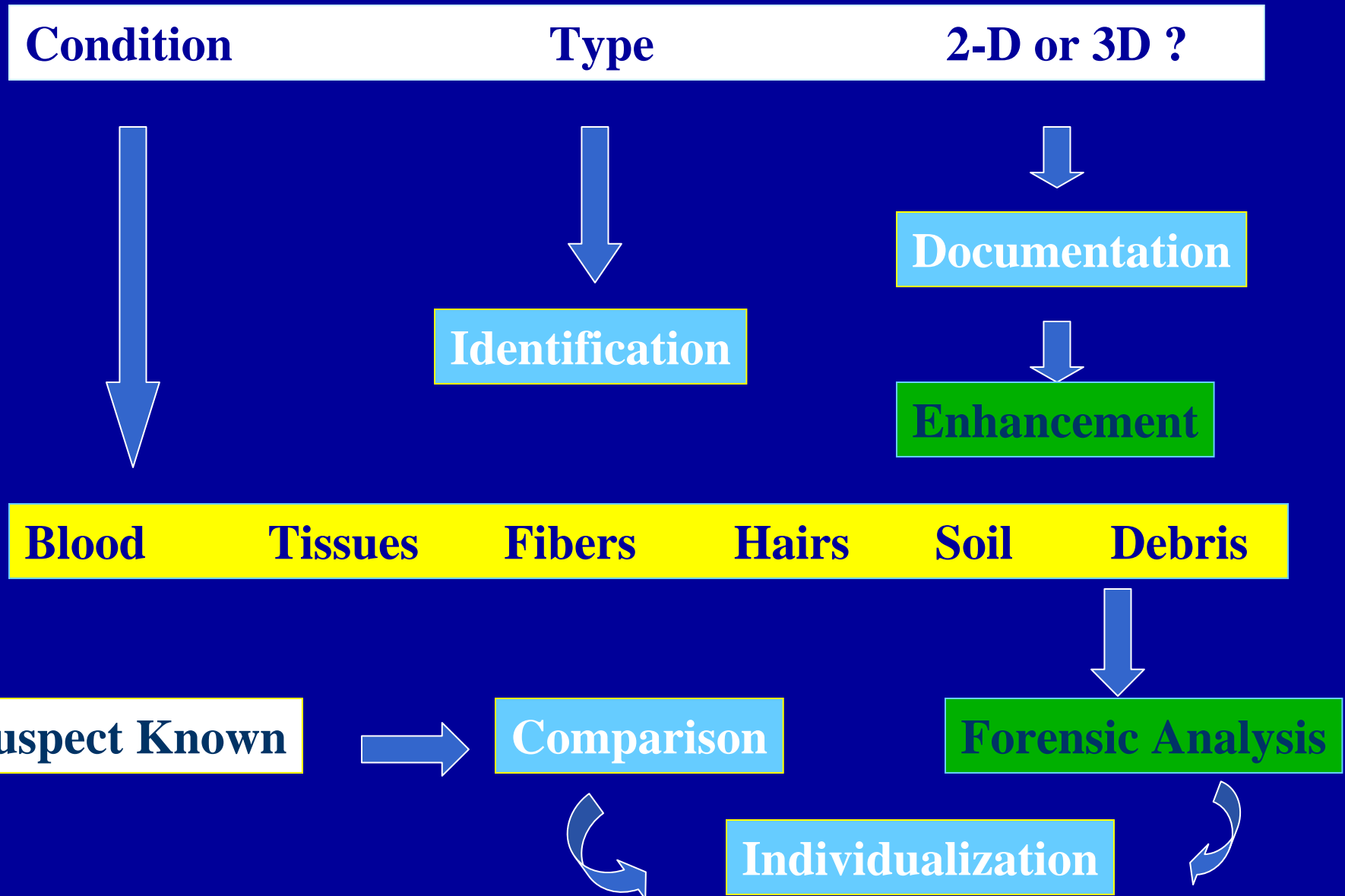


Methods of Enhancement





Imprint Evidence

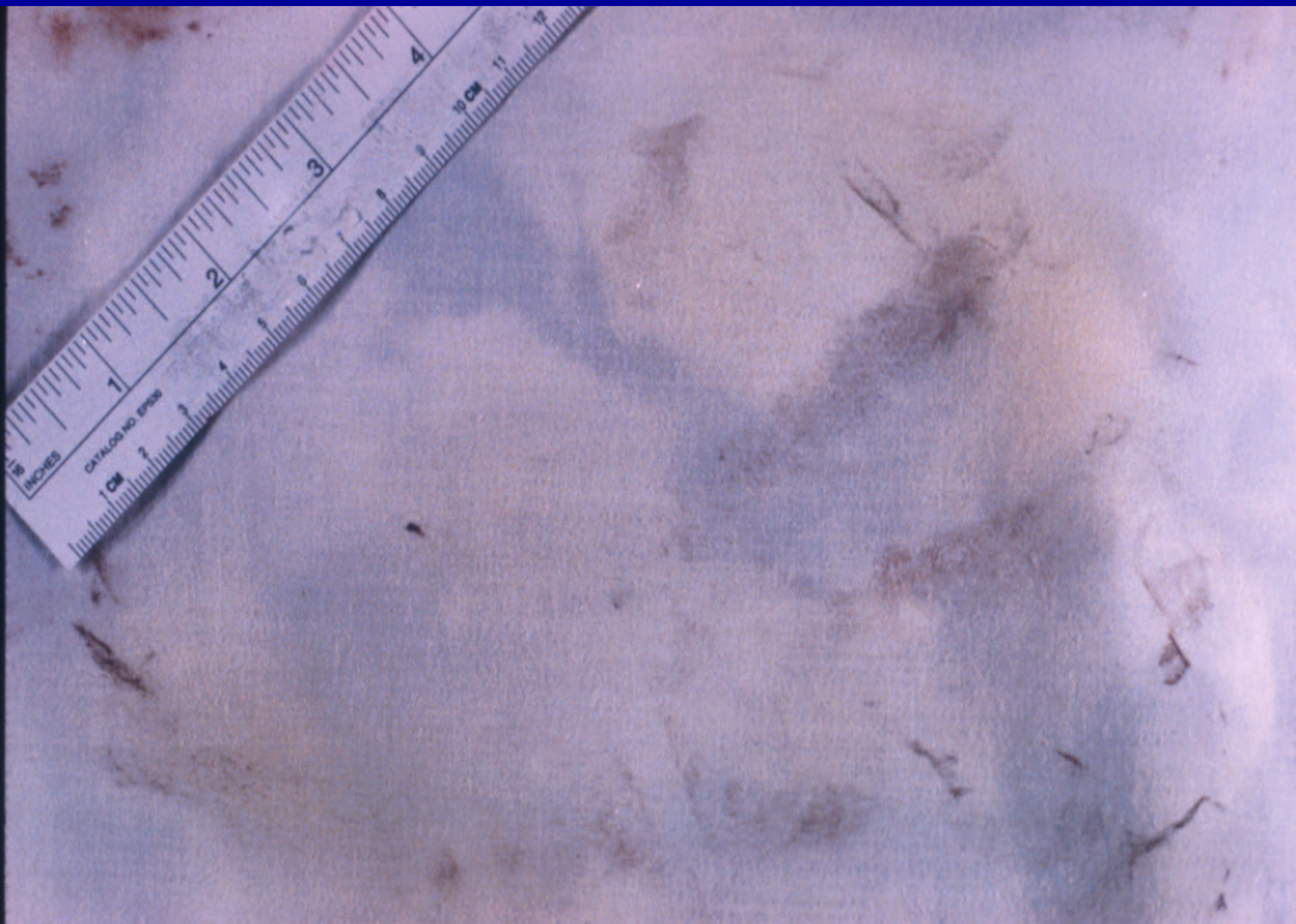


Associative Evidence





Reebok



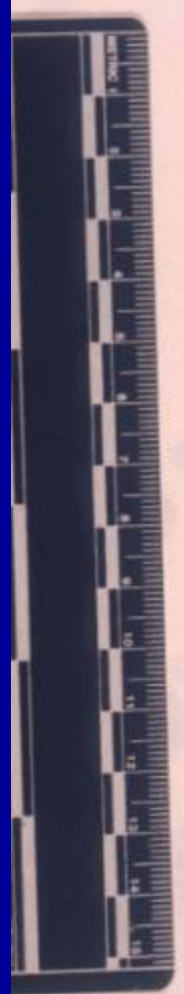


BUCKLE UP CONNECTICUT... IT'S THE



LEFT PA

DEREK ROSEBORD
89 CRR



THERESA SALZANO 11-6-57

New Haven Register

178TH YEAR, NO. 307; NEW HAVEN, CONN., SATURDAY, NOVEMBER 3, 1990; NEWSSTAND 50 CENTS

Roseboro guilty in triple murder

Derby man could face death penalty

By Marianne V. Stochmal
Register Staff

MILFORD — Derek Roseboro was convicted of capital felony murder Friday and could face the death penalty in the stabbing deaths of a Derby woman, her son and her 8-year-old granddaughter during a burglary in their home in August 1989.

"The offenses in this case are the most serious in our criminal code," said Judge Hugh C. Curran. He presided over the three-judge panel that found Roseboro, 37, of 222 Emmett Ave., Derby, guilty of killing his neighbors Mary Ferrara, 72, Joseph Ferrara, 46, and Nina Ferrara, 8.

Their bodies were found in Mary Ferrara's house at 228 Emmett Ave. Roseboro is to be tried by the

judges' panel instead of a jury. He has until Wednesday to choose whether the judges or a jury will decide if he gets the death penalty or life in prison without parole.



Derek Roseboro

The panel, which also included Judges Philip E. Mancini and Samuel S. Freedman, deliberated 12 hours over three days. The decision was unanimous.

At least 12 relatives and friends of the victims crowded together into two rows of the courtroom in Superior

"The court finds that the state has proved beyond a reasonable doubt all the allegations . . . in each of the counts," Curran said. Roseboro also was convicted of three counts of murder

and one count of first-degree burglary.

Court as word spread that the panel had reached its verdict.

Carol Viola, daughter of Mary Ferrara and Nina Ferrara's aunt, burst into tears and buried her face in her hands as the decision was read.

Nina Ferrara's mother, Peggy Ferrara, had left her daughter overnight with her grandmother the night of the murders. Peggy Ferrara has moved out of state. Joseph Ferrara, who was blind and retarded, lived with his mother.

Roseboro, who appeared nervous as he was led into the courtroom, stared straight ahead as he heard the verdict.

State's Attorney Mary M. Galvin said the state will ask for the death penalty.

"The judges obviously thoroughly reviewed the evidence, and they took their time and obviously weighed every facet of the case and came to a just and proper verdict," Galvin said.

Galvin credited Derby police and



Kelby Kennedy/F

Carol Viola, a relative of the victims, waits others before the verdict is announced.

Turn to Verdict, Page 2

State of Connecticut



GENERAL ASSEMBLY Official Citation

Introduced by

*Senator Gary A. Hale of the 17th District
Representative Vincent J. Tonucci of the 104th District*

Be it hereby known to all that:
The Connecticut General Assembly
hereby offers its sincerest congratulations to:

DR. HENRY LEE

in recognition of

YOUR DILIGENT WORK FOLLOWING
THE RECENT TRAGEDY IN DERBY.

The entire membership extends its
very best wishes on this memorable occasion
and expresses the hope for continued success.

Given this 25th day of October, 1989

at the State Capitol
Hartford, Connecticut

by

Richard J. Blawie
President Pro Tempore

Richard J. Blawie
Speaker

Julia H. Tashjian
Secretary of the State



King of crime scenes



Scott Locker

Henry C. Lee: "While they're (criminals) in prison they learn from each other."

Famous forensics doctor teaches Truckee Meadows

"48 Hours," has worked nearly 5,000 homicide cases, he said.

Lee's expertise is in recreating the crime scene from blood splatters and other microscopic clues.

Willimantic Padilla Case

11 years old Angelica Padilla was last seen Delivering news paper in the afternoon of August 13, 1998. Her body was found in a wooded area behind The Forster Drive housing complex next day. She dead of blunt force trauma. Her throat has been slashed. After two weeks of intensive investigation, Torres, 29 yrs old, was arrested and charge for the crime.





PUBLIC SAFETY COMMISSIONER Henry Lee ducks as he enters a crime scene in Willimantic, near where the body of Angelica Padilla, 11, was found earlier this

month. Holding up the tape is Willimantic Police Chief Milton King. Lee examined the scene and asked for the public's help in solving the crime.

BRAD CLIFF / THE HARTFORD COURAN

Police Focus On Tools In Slaying Probe







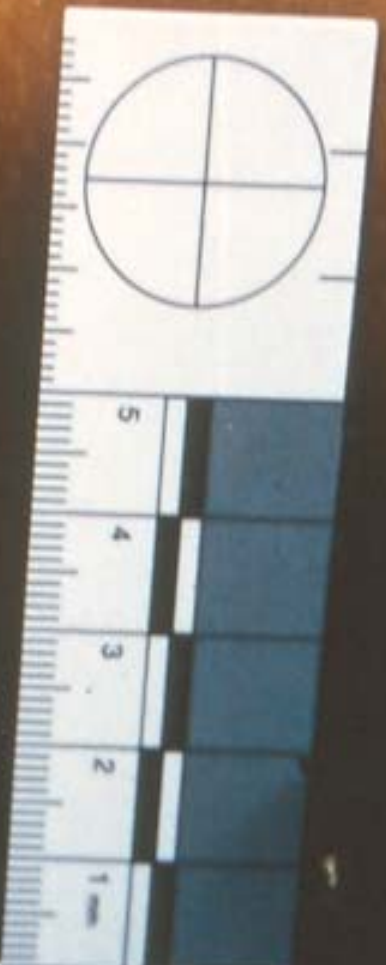
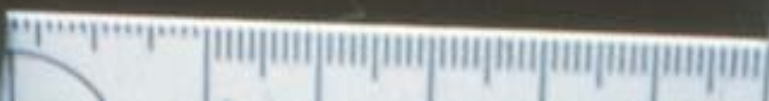








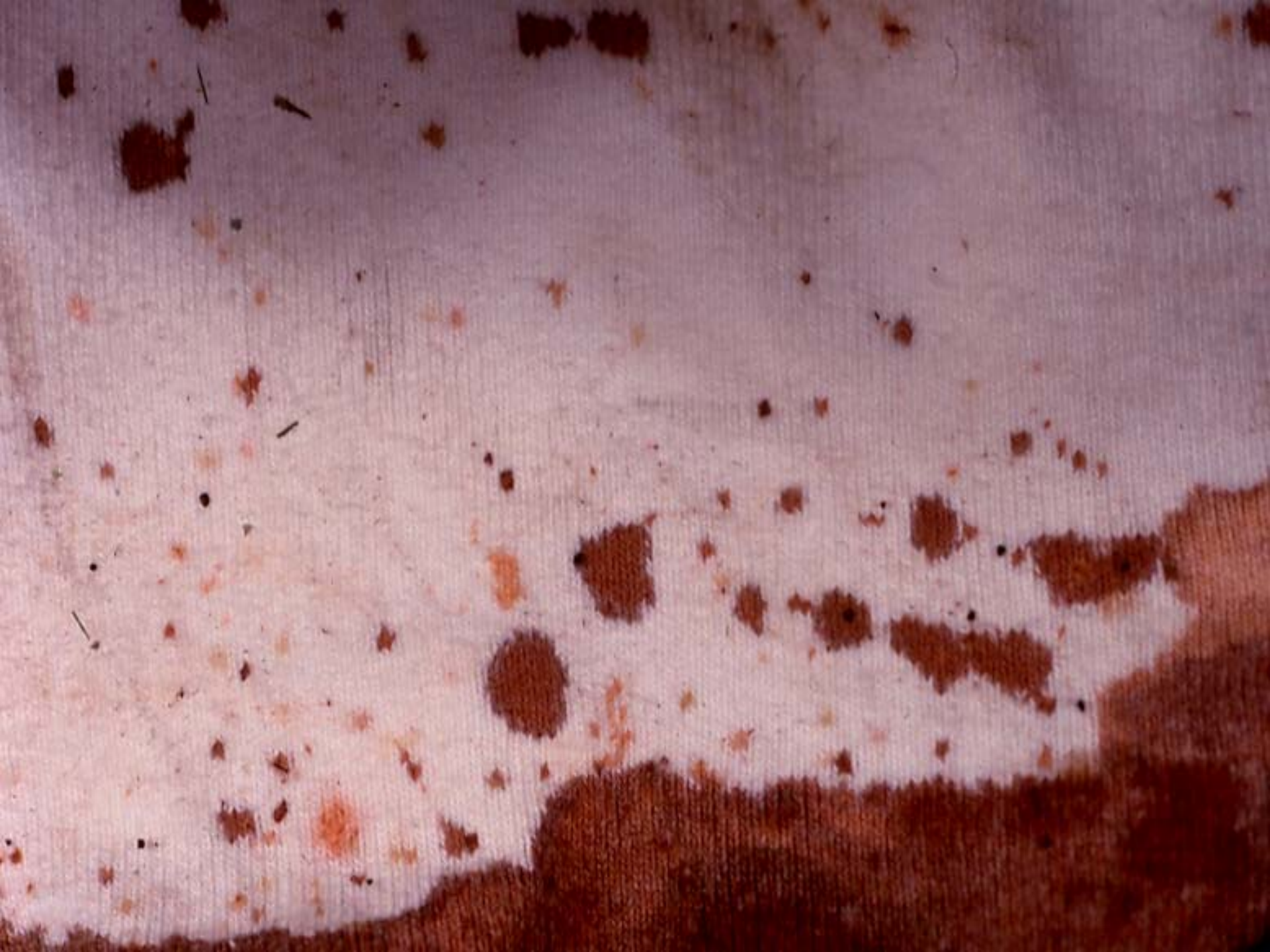




















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Norwich Bulletin

Serving eastern Connecticut since 1791

53 A Gannett Newspaper

FRIDAY, FEBRUARY 22, 2002

NorwichBulletin.com 50

New technology links stain on victim to accused

By DEBORAH A.
McLEOD

Special to the Bulletin

DANIELSON — Expert witnesses testified Thursday that the DNA found on Angelica Padilla's shorts matched that of her accused killer Jose Torres.



Padilla

The DNA extracted from a semen stain on the belt loop of Padilla's shorts, which at first was thought too small to test conclusively, recently was analyzed by the FBI and Connecticut forensic laboratories using a state-of-the-art DNA testing procedure that wasn't available in 1998

when the murder occurred. During testimony in Danielson Superior Court, Assistant State's Attorney Mark

What is mitochondrial DNA testing?

Mitochondrial testing differs from the more common nuclear DNA testing. It analyzes a different part of the DNA molecule that can be replicated easily to create more material for testing from tiny amounts. It cannot conclusively identify an individual but can include or exclude someone based upon their maternal, mitochondrial DNA lineage. Newer mitochondrial DNA tests also can work successfully with contaminated samples and have a higher sensitivity level than previous versions, making obtaining a result from the samples more likely.

Mitochondrial DNA testing now is used in almost every forensic laboratory in the United States since its inception in 1996, and has been used successfully in court in cases when direct evidence is sparse, such as Tennessee vs. Paul Ware. Ware was convicted of raping

and killing a 4-year-old girl after mitochondrial DNA testing showed a hair in her throat belonged to him. It also is used in disaster and anthropological testing, and has recently been employed in identifying remains in the World Trade Center attack.

Stabile questioned Dr. Alice Isenberg about the results of DNA tests done on several pieces of evidence, including

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bers Linked To Slain Girl, Defendant

by DIANE STRUZZI
URANT STAFF WRITER

ELSON — Prosecutors
l evidence Monday that
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reen items found in the

CONNECTICUT

tic apartment of de-
Jose Torres and fibers
the body of 11-year-old
Padilla, who was killed

vidence was introduced
rt of the second week of
apital felony trial in Da-
superior Court and was
physical evidence the
ferred that may link
the victim.

Angelica never returned home from delivering newspapers the afternoon of Aug. 13, 1998. Her body was found about 12:30 a.m. the following day in a wooded area behind Torres' apartment building. Her throat had been slashed and she wore only underpants, a T-shirt and bra. Her feet were bare.

Angelica died from blunt force trauma to the head and sharp force injury to the neck, according to court records.

Less than two weeks after her body was found, police arrested Torres — a friend who lived in the same Foster Drive housing complex as Angelica — in connection with the slaying. Torres, 29, faces charges of capital felony and murder. If he is convicted, prosecutors will not seek the

death penalty; instead they plan to seek a sentence of life without the possibility of release.

On Monday, a state criminalist testified that fibers found on the body of the victim were similar to fibers from a green blanket and a fiber found on a pair of jeans. The blanket and jeans were seized from Torres' apartment. Police found the jeans in a bathroom hamper, and the blanket was among a pile of items on Torres' bedroom floor.

While Angelica's body was still at the crime scene, investigators used an ultraviolet light source that illuminated fibers on her body and helped them find two green, acrylic fibers in Angelica's hair — one at the hairline and another deeper

in her hair, according to Virginia Maxwell of the state forensic science laboratory.

Maxwell also testified that a dark green wool fiber found on the back of the shirt Angelica wore when her body was discovered was similar to a dark green, wool fiber found on the pair of jeans from Torres' apartment.

A comb seized from Torres' apartment also contained a green, acrylic fiber that was similar to those found in Angelica's hair and on the jeans found in Torres' apartment.

Under cross-examination, Maxwell said no known head hairs from Torres were found on the victim's clothing or her body.

The trial resumes Thursday.

CONNECTICUT

SATURDAY, FEBRUARY 23, 2002

6/7★ THE HARTFORD COURIER

Henry C. Lee Testifies In Torres Murder Trial

By DIANE STRUZZI
COURANT STAFF WRITER

DANIELSON — Renowned forensic scientist Henry C. Lee took the witness stand Friday as the state rested its case in the capital felony trial of the man ac-

year-old Angelica Padilla, Lee explained to jurors in Danielson Superior Court the significance of selected pieces of evidence and his opinions on the sequence of the crime.

Angelica never returned from her newspaper route at the Willimantic apartment complex where she lived in August 1998. Jose Torres, 29, a friend of Angelica's family who lived in the same apartment complex, was arrested and charged with capital felony and murder.

Less than a day after Angelica disappeared, police found her body in a

wooded area behind Torres' apartment building. She was clad only in underpants, a T-shirt and bra. Her head had been beaten and her throat slashed.

Her sandals and black shorts were found in the basement of Torres' apartment building, as was a piece of white plastic that investigators later determined had Angelica's blood on it.

Lee, who was head of the state's forensic science laboratory and commissioner of public safety, was the final witness for the prosecution in its third week of presenting evidence.

The defense Friday tried to prevent

Lee from testifying, questioning the methodology he used in his reconstruction. In a sharp exchange with defense lawyer Patrick Culligan, Judge Joseph Q. Koletsky rejected the request.

Lee, who conducted a partial reconstruction of the crime scene, said he believed the basement was the primary location of the crime since her shorts and sandals and the piece of plastic were found there. Angelica was usually delivering newspapers in the vicinity of Torres' building at about 4:15 p.m., defining the timeframe in which authorities believe the crime occurred.

AREAWIDE

of killing a Willimantic newspaper girl in 1998. Viewing slides of key sites involved in the investigation into the death of 11-

Henry Lee Testifies In Torres Murder

By DIANE STRUZZI
COURANT STAFF WRITER

DANIELSON — Renowned forensic scientist Henry Lee took the witness stand Friday as the state rested its case in the capital felony trial of the man accused of murdering a Willimantic newspaper girl in 1998.

Lee, showing slides of key sites involved in the investigation into the death of 11-year-old Angelica Padilla, explained to jurors in Danielson Superior Court the significance of selected pieces of evidence and his conclusions on the sequence of the crime.

AREAWIDE

Angelica never returned from her newspaper route at the Willimantic apartment complex where she lived in 1998. Jose Torres, 29, a friend of Angelica's family who lived in the same apartment complex, was arrested and charged with capital felony and murder.

Less than a day after Angelica disappeared, police found her body in a wooded area behind Torres' apartment building. She was clad only in underpants, a T-shirt and bra. Her head had been beaten and her throat cut.

Renowned forensic scientist, the final witness for the state, says evidence shows that 11-year old Angelica Padilla most likely was killed in the basement of Torres' apartment building.

Her sandals and black shorts were found in the basement of Torres' apartment building, as was a piece of white plastic that investigators later determined had Angelica's blood on it.

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Lee, who conducted a partial reconstruction of the crime scene, said he believed the basement was the primary location of the crime since her shorts and sandals and the piece of plastic were found there. Angelica was

building at about 4 p.m. which authorities believe

Her body was then identified. The amount of blood was the site where her position indicated she was killed, he said.

A stain on the basement floor for semen was transferred, or indirectly, Lee testified, DNA analysis indicated the stain.

But to complete the reconstruction and within a short time, cross-examination by the defense can remain on fabric.

Lee also acknowledged that the crime could not be eliminated from a separate location from where he cut Angelica's throat, her blood.

None of Torres' clothing was provided by Culligan in







Prosecution rests in Torres trial

By **DEBORAH A. McLEOD**
Special to the Bulletin

DANIELSON — The prosecution rested its capital felony case against accused killer Jose Torres Friday with a crime scene reconstruction by forensic expert Dr. Henry Lee.

Lee, the Connecticut Commissioner of Public Safety at the time of Angelica Padilla's homicide in August 1998, testified about the evidence found on the 11-year-old's body and in the basement of the building in which Torres lived.

Under questioning from State's Attorney Patricia Froelich, Lee placed the victim and accused at the same location the day of the murder.

"The victim was found up the hill, 86 feet away from building 14,"

Lee said while showing a slide of Padilla's body. "She appeared to be adjacent to a little path, surrounded by very dense growth. Someone would have to be familiar with the area to know the path was there."

Padilla's mother, Milagros Cuevas, left the courtroom to avoid the graphic slides, while Torres, 30, sat expressionlessly.

State and FBI testimony was presented Thursday conclusively linking semen found on Padilla's clothes to Torres' DNA.

"Semen has to be fresh to transfer to another surface," Lee said. "It dries quickly so it has to be a very short period of time."

Lee said the lack of dirt or debris on Padilla's bare feet meant she had been placed in the wooded area and that the lack of readable

fingerprints on Padilla's body wasn't a rarity.

Lee added that the lack of blood on Padilla's lower torso, legs and feet meant that she had been laying down when her throat was slit and the pool of blood under her head meant it had happened where her body was found.

The defense refuted Lee's theories on several fronts, including the location of the original crime scene and when the semen got on Padilla's shorts. Public Defender Patrick Culligan asked Lee when the semen was deposited onto the shorts and when Lee answered, "Probably less than 20 minutes after it was ejaculated," Culligan countered with a question poised to instill doubt.

Under Culligan's questioning

Lee said dried semen could be on fabric for a long time.

Culligan offered other possibilities for the crime, including that Padilla was attacked somewhere other than the basement and that someone other than the attacker could have placed the sandals and shorts in the basement.

"Past study of criminal behavior and psychology shows the want to be exposed," Lee said. "I wouldn't take the time to take off sandals and shorts and then hide them in the basement and hope people possibly see them when they have been easier to hide there than woods than take a chance."

The defense will begin its case on Tuesday in Danielson Superior Court with testimony expected to last for four days.

VERDICT IN ANGELICA PADILLA TRIAL

Torres guilty in slaying



■ The mother of the 11-year-old victim cries with joy at Torres' conviction.

By DEBORAH A. MCLEOD
Special to the Bulletin

DANIELSON — It took three and a half years to bring Jose Torres to trial for the vicious murder of an 11-year-old papergirl.

But it took a jury only three and half hours of deliberations to convict the 29-year-old Willimantic man of murder and capital felony in connection with Angelica

After going into deliberations late Friday, the jury returned Monday morning at 10:35 a.m. The verdict was announced shortly thereafter.

Torres will be sentenced Monday in Danielson Superior Court.

He likely will get life in prison, as the state did not seek the death penalty in the case. Capital felony calls for either



Padilla

death or life in prison. Cuevas sobbed as the jury foreman read aloud the verdicts on both counts.



ABO

Genetic Markers
Individualizing
Biological Blood and
Body Fluid
Evidence

DNA

ISOENZYMES

SERUM GROUPS

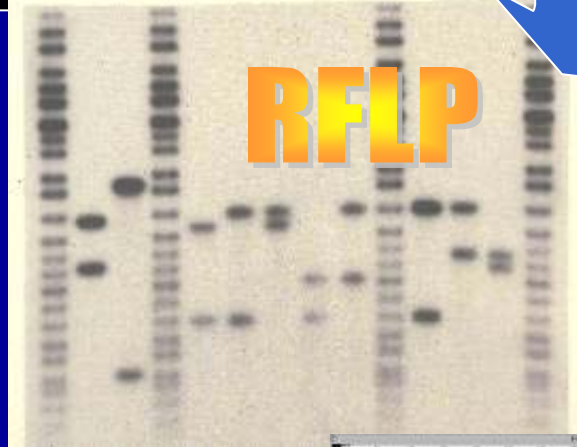
PGM

HEMOGLOBIN

BLOOD GROUP

1900 1920

MW Ladder
Father
Child 1
Child 2
Child 3
Ladder
Mother
Child
MW Ladder
K562
TR5



RFLP



DNA



STR

PSL man found dead in garage

Police treating death as suspicious

Mark Pollio
TRIBUNE STAFF WRITER

PORT ST. LUCIE — Police are calling the death of a 46-year-old Minorca Avenue man suspicious after finding him lying naked, face-down in the garage of his

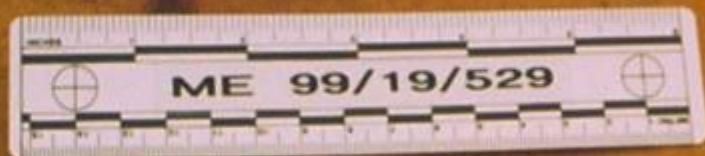
Minorca Avenue
has seen its share
of major crimes

Mark Pollio









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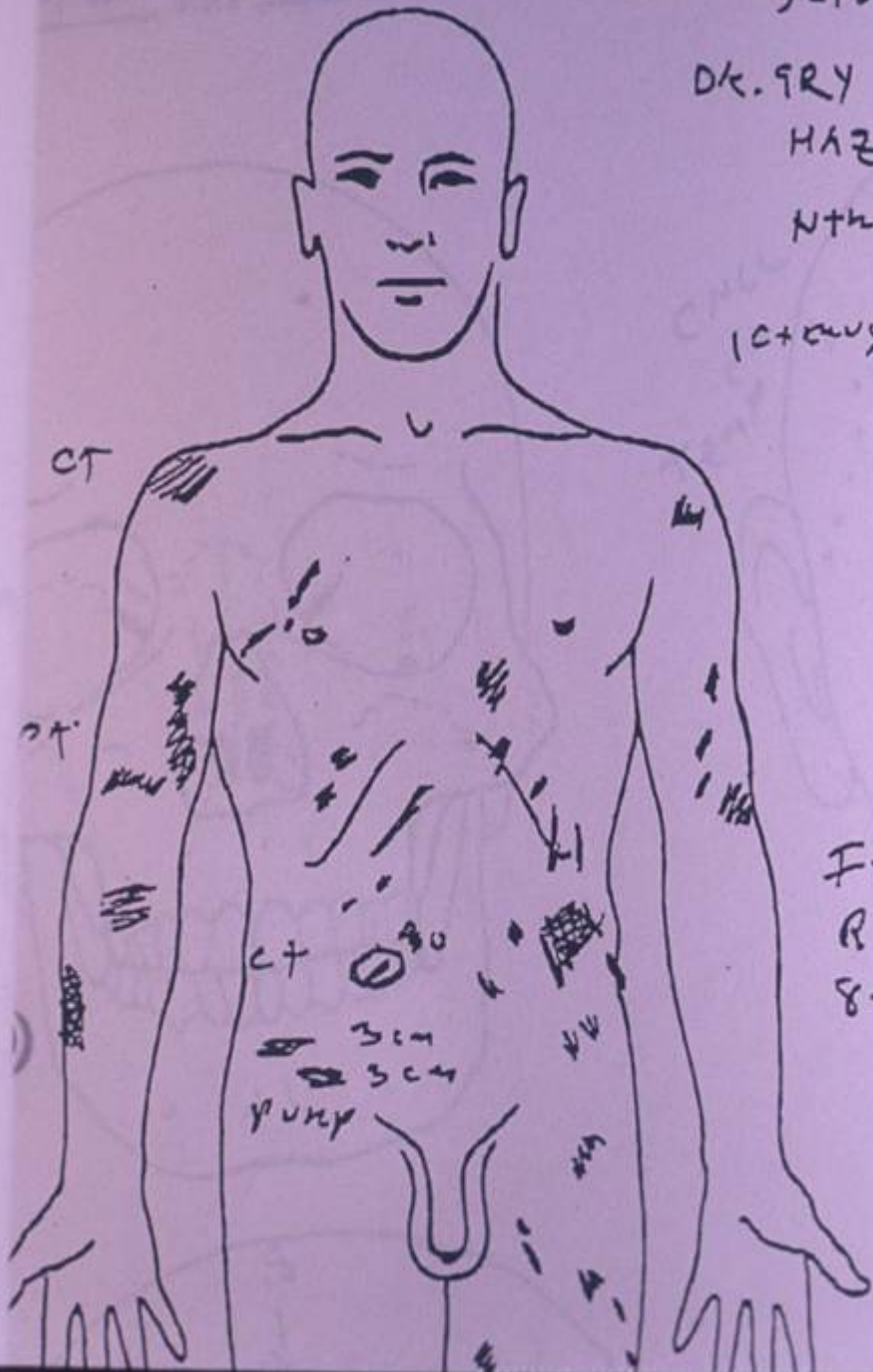
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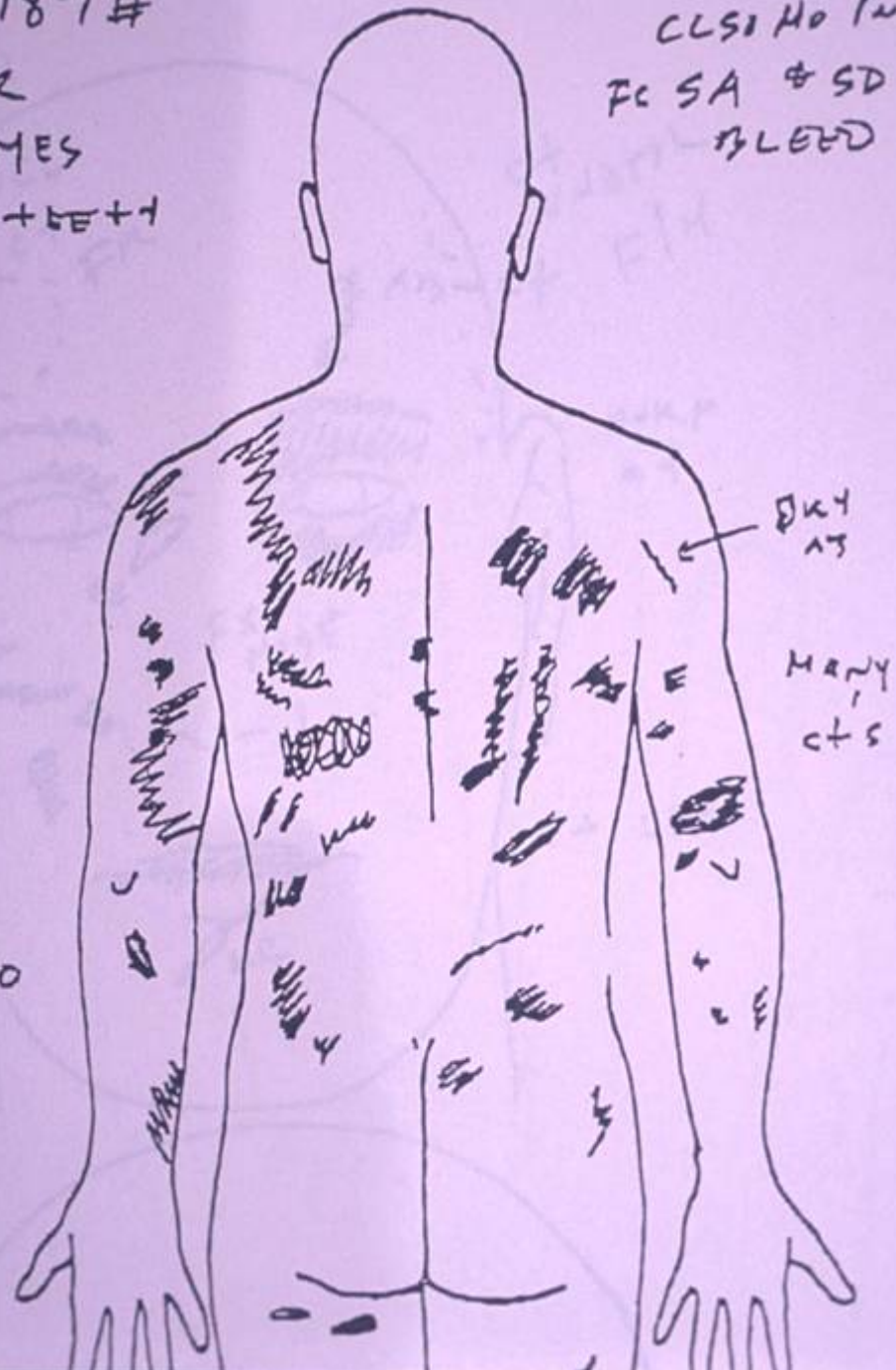
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Autopsy shows dead man was beaten

Mark Pollio
TRIBUNE STAFF WRITER

PORT ST. LUCIE — A 46-year-old man found dead in his Minorca Avenue home Monday was beaten repeatedly over the head with a blunt object, according to an autopsy, but police refuse to name the suspect in the case.

"We have a very good idea of who the particular person is that did this," said Port St. Lucie Deputy Chief Scott Bartal, "but right now, we are not willing to say who that is."

found marked and lying face down in a pool of blood in his garage. His live-in girlfriend, Suzan Barratt, told police she woke up Monday morning to find Haines' body. In a panic, Barratt called her mother in Jensen Beach, and the mother then called 911 to report the death.

Autopsy results show Haines was struck several times on the head with a blunt object. Blood was found in the living room, hallway and garage where Haines died. Johnson said they have collected several pieces of evidence.

Barratt has hired defense attorney Richard Kibbey to represent her. Kibbey said the relationship between Barratt and Haines should be studied closely before anyone passes judgement on his client.

"We feel once the entire history of this relationship comes out, people will realize there was no criminal activity here," Kibbey said. "It was an unfortunate incident."

A neighbor said she heard the muffled sounds of an argument coming from Haines' home early Monday. Later, a garbage bag was put on the side of the street for trash pickup. The bag contained





Immediate P/M

Early P/M

Intermediate P/M

Late P/M

Note 1.

To temperature
of surroundings

Rigor mortis

Postmortem lividity

Decomposition



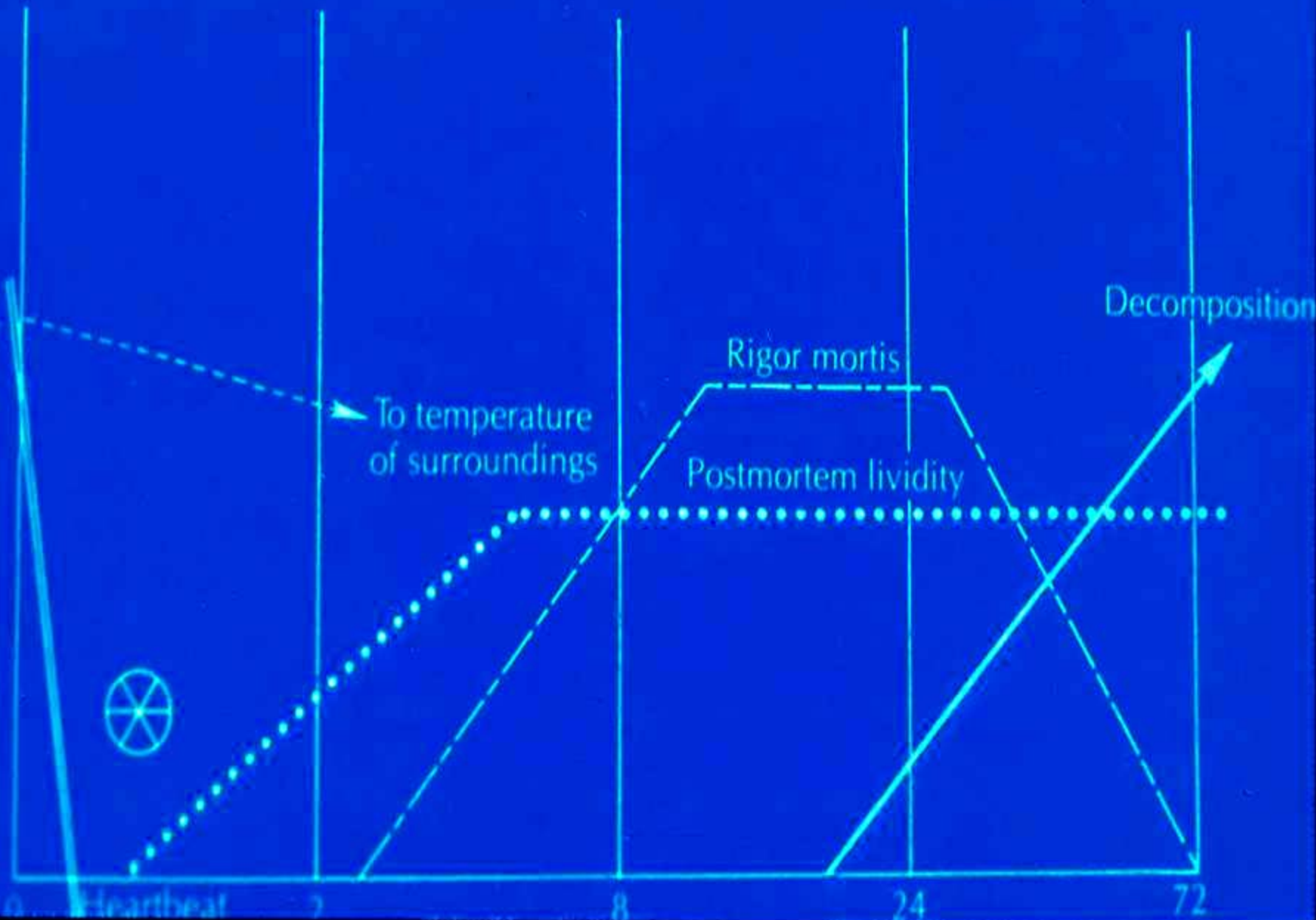
0 Heartbeat

2

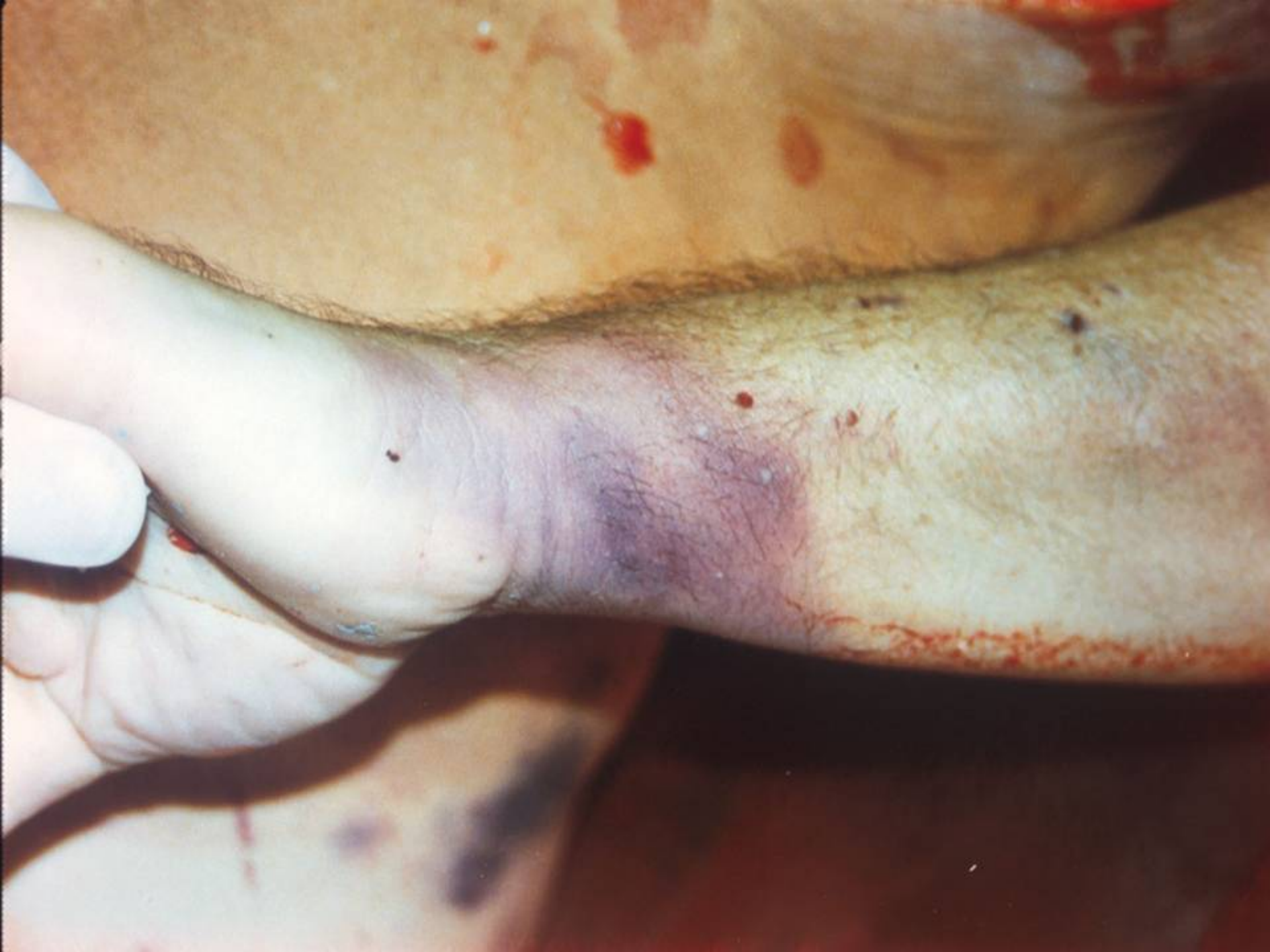
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AGING CONTUSIONS

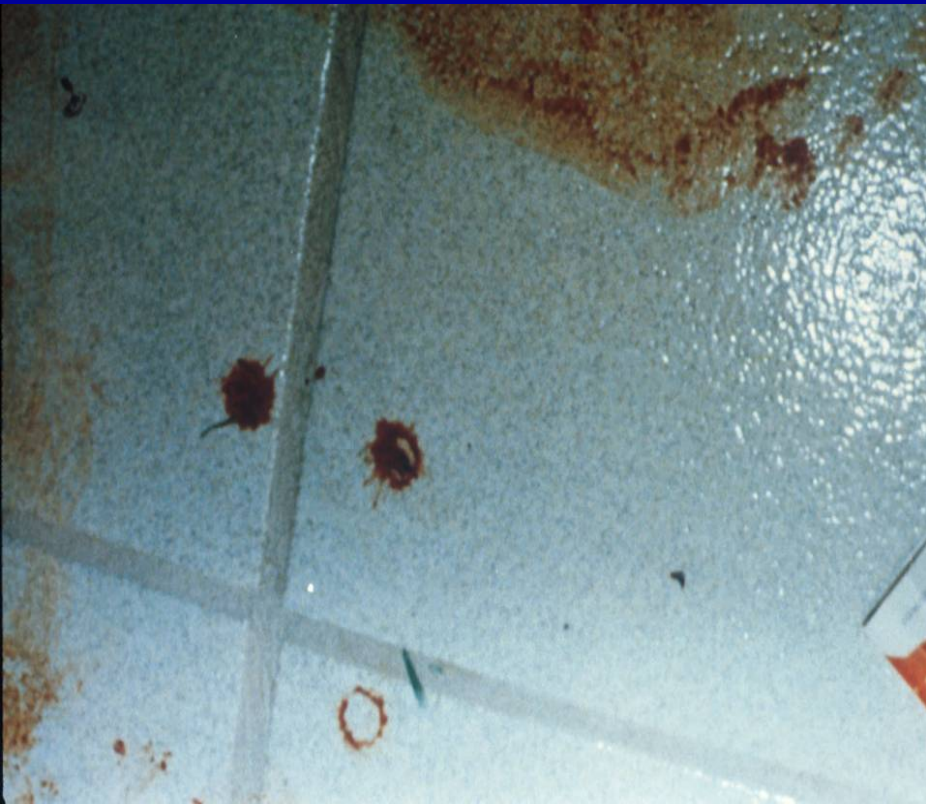
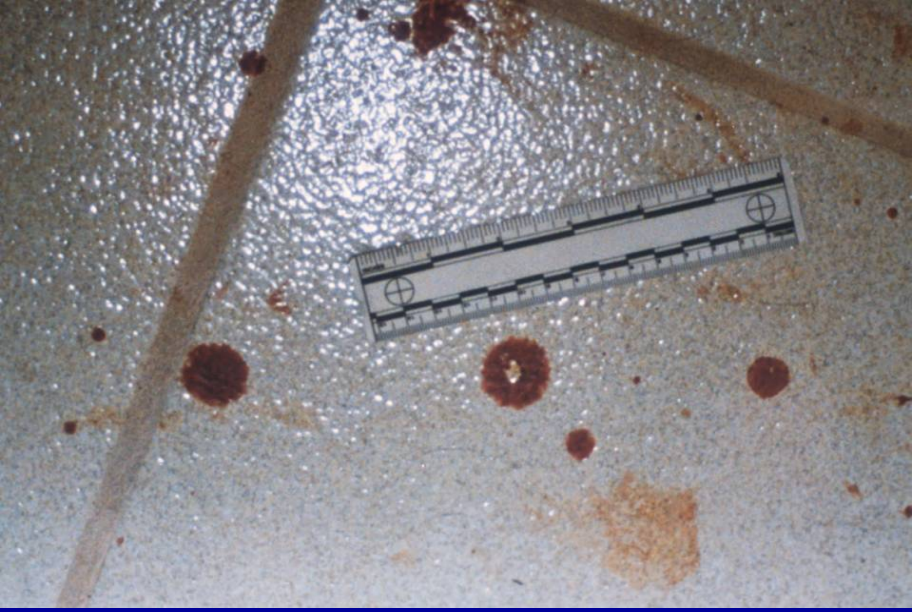
- **Red-blue to Purple**
- **Blue – Brown**
- **Green – Brown**
- **Green – Yellow**
- **Yellow – Brown**
- **Tan**
- **Yellow**











IN THE CIRCUIT COURT OF THE
NINETEENTH JUDICIAL CIRCUIT
IN AND FOR ST. LUCIE COUNTY,
FLORIDA

CASE NO. 99-3355-CF

STATE OF FLORIDA,

Plaintiff,

vs.

SUZAN BARRATT,

Defendant.

**CERTIFIED
COPY**

VIDEOTAPED DEPOSITION OF DR. HENRY C. LEE

DATE: July 31, 2000
TIME: 1:45 p.m.
PLACE: 100 East Ocean Boulevard
Stuart, Florida
TAKEN BY: Attorney for Defendant

Manslaughter charge dropped after ruling

The case fell apart when a judge excluded a woman's confession in her fiancé's death.

By Molly Hennessy-Fiske
Palm Beach Post Staff Writer

FORT PIERCE — Prosecutors said they plan to drop a manslaughter charge today against Suzan Barratt after Port St. Lucie police discovered the body of her fiancé bruised and bloody in the couple's garage.

Assistant State Attorney

Circuit Judge Robert Makemson ruled Sept. 15 that Barratt's statement to police Oct. 4, in which she confessed to fatally striking fiancé Stephen Haines, was the result of an "unusually coercive situation" in which she was effectively in custody without being advised of her Miranda rights. Barratt

Defense 'ecstatic' over decision

MANSLAUGHTER

From 1B

attorney when she asked for one and noted that other officers told her to wait in a police car or at the department when she was free to leave.

Defense attorney Richard Kibbey pressed to have the confession, as well as clothing, fingernail scrapings and a blood test taken during the interview, thrown out. Mirman said it was likely all evidence would have gone the way of the confession.

Soon after prosecutors attempted to notify him of their decision, Kibbey said he was "ecstatic" and relieved they decided to drop the charges.

situations like this," he said of Port St. Lucie police.

Kibbey brought in several medical experts to examine the crime scene police found at the couple's Minorca Avenue home Oct. 4, including large bloodstains left throughout the house by Haines, 46, who suffered a blood disorder due to chronic alcoholism.

Treasure Coast Medical Examiner Frederick Hobin ruled the death a homicide, but Dr. Henry Lee — a forensic pathologist and criminologist who assisted in the O.J. Simpson and Jon-Benet Ramsey cases — called it natural. Miami-Dade interim Medical Examiner Joseph Davis also found fault with Hobin's conclusions.



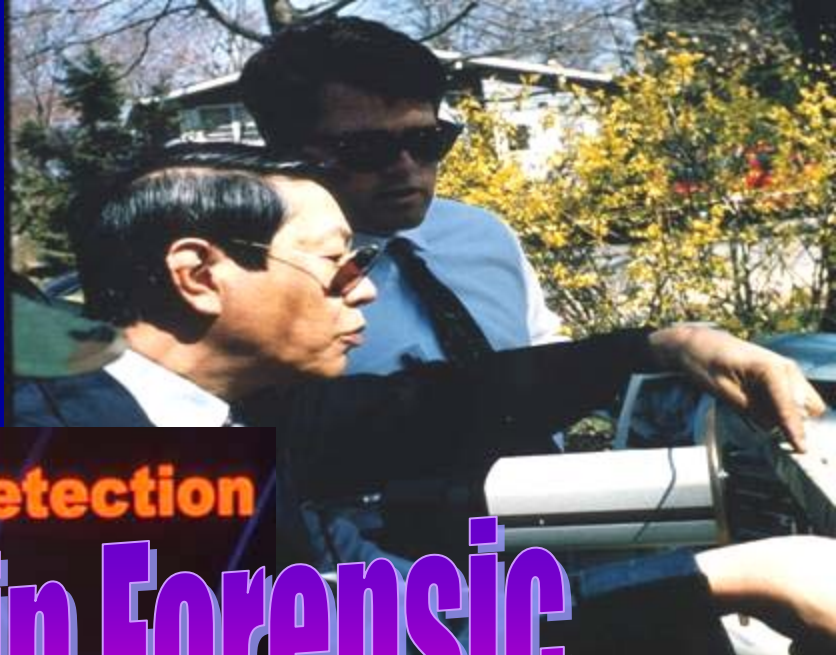
STANDARD PROCEDURE

ASCLD ACCREDITATION

PEER REVIEW

CERTIFICATION





New Advances in Forensic

Crime Scene Detection

- Reagents react with Heme
 - Reagents react with Protein
 - Reagents react with Elements
- Detection Instruments
- X-ray, radar, Body Heat Imaging





STRESS

Defense

Prosecution

Standards

Press

Family

Community

Victim

Community

Ego

Police

Forensic Science

Justice

Court

Loss

Ethics

Media

Limitations

Uncertainty



Science Neutrality



Different Option

Ideological Bias



Reasons for Modification

BIASED WITNESS

(Prosecution Witness)



HIRED GUN

(Defense Expert)

FALSIFIED LATENT PRINTS...CONTINUED

the September 1981 issue of "Identification News" printed a newspaper article from **The Providence Journal** telling of the falsifying of latent print evidence by the Chief of Police of Hopkinton, R.I.

The October 17, 1981, edition of the same newspaper reports that Ex-Chief Donald E. McCumiskey was sentenced to a year's probation. Judge Francis J. Boyle of the U.S. District Court told McCumiskey that evidence...

Forensic Specialist Charged With Perjury

FAIRMONT, W.Va., July 22 (AP) — A former state police chemist suspected of linking defendants to crime scenes by fabricating or misrepresenting evidence in more than 100 cases across West Virginia was indicted by a state grand jury today on charges of lying in one of them.

The indictment of the 43-year-old former chemist, Fred Zain, followed an order by the West Virginia Supreme Court last year requiring review of at least 134 cases in which, the court said, Mr. Zain might have offered false evidence. But the grand jury's action today represented the first time that he had been criminally charged.

The indictment charges him with three counts of perjury in lying, as a witness at a murder trial here in Fairmont three years ago, about his education, his fees for testifying and a chemical test that the indictment said he had never performed. The defendant in that trial, which involved the slaying of two elderly women in 1989, later pleaded guilty.

Each of the three counts against Mr. Zain carries a maximum sentence of 10 years' imprisonment upon conviction.

A person familiar with the case, who spoke on condition of anonymity, said the defendant's whereabouts were unknown.

FBI lab errors taint 3,000 criminal cases

By John Solomon
The Associated Press

WASHINGTON — The Justice Department has identified about 3,000 criminal cases that could have been affected by flawed science and skewed testimony at the FBI laboratory before 1997, and is letting prosecutors who handled those cases decide whether defendants should be notified.

To date, government officials said they are aware of between 100 and 150 cases in which prosecutors decided to alert defendants of problems they concluded were material to their verdicts. None has resulted in overturned convictions, they said.

One of those cases already has reached the Florida Supreme Court. The court last week ruled that convicted murderer George Trepal was not entitled to a new trial despite evidence the FBI's chief toxicology chemist gave inaccurate testimony. The identification of cases and prosecutorial reviews are the final stages of a scandal that rocked the FBI during the mid-1990s when a senior chemist at the famed crime lab went public with allegations of shoddy work, tainted evidence and skewed testimony.

A Justice Department internal investigation concluded in 1997 that 13 lab technicians made scientific

FBI and Justice officials say they continue to review cases handled by those technicians to determine if there are problems that could have affected verdicts. But they say the lab today is much different after a series of changes designed to ensure scientific and forensic analyses are subjected to checks and balances.

"I had confidence in the results of FBI laboratory exams even prior to 1998 but today my confidence level is even higher after the quality review process we have implemented," FBI lab director Dwight Adams said in an interview.

Those changes, Adams said, include a requirement that all lab examiners' work be reviewed first by another technician with the same expertise, then by a supervisor. In addition, the lab has earned and maintained accreditation from the scientific community every year since 1998, and it just moved into a new 500,000-square-foot state-of-the-art complex.

Despite the changes, some criminal defense lawyers are concerned by the Justice Department's decision to let federal, state and local prosecutors decide whether to notify defendants of problems.

"That's like asking the fox to guard the hen house," said former federal prosecutor Neal Sonnett. He

nal justice section.

"If there is a possibility that evidence has been tainted, then the Department of Justice or prosecutors should not be the arbiter of whether it's material," Sonnett said

Second Man Freed From Jail Because Evidence Was Faked

A man who was convicted of beating an elderly man unconscious has been set free after a retrial in Ithaca, N.Y., that focused on state police efforts to fabricate fingerprint evidence against him.

Mark Prentice, who served six and half years in prison for burglary and the assault of an 81-year-old man, is the second person to be freed as a result of a state police evidence-tampering scandal that has led to the conviction of four troopers.

George M. Dentes, the Tompkins County District Attorney, said he was "disappointed but not surprised" by Mr. Prentice's acquittal.

al rights by refusing to testify in four cases, testified last week. He recognized that his superior had suggested that he fake samples and missing of Panhandle to the Rio Grande. According to defense attorneys, many as 30 cases were thrown out of court because of the tampering. Dr. Reich R. Froman, a forensic pathologist in Ithaca, N.Y., said he had never seen the evidence since the early 1980's.

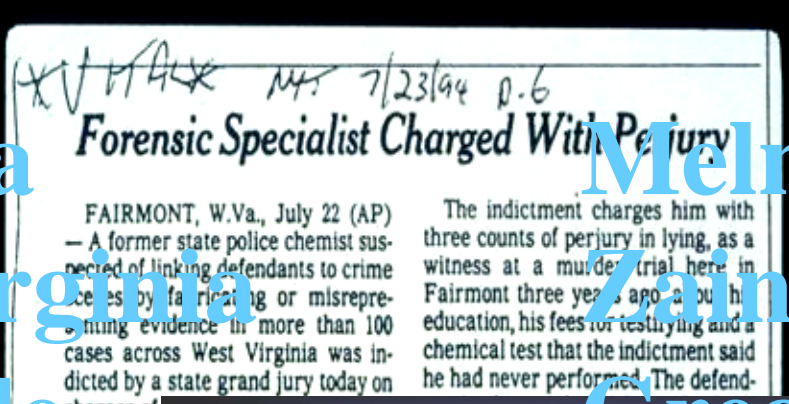
Mr. Harding, who had told him to fake samples and missing of Panhandle to the Rio Grande. According to defense attorneys, many as 30 cases were thrown out of court because of the tampering. Dr. Reich R. Froman, a forensic pathologist in Ithaca, N.Y., said he had never seen the evidence since the early 1980's.

As evidence of Dr. E. Harding's tampering, a fraud out of accusations by the state prosecutor, Mr. Harding was trying to cover it up. On Sept. 21 Dr. Erdman

Lessons from History

Impact of a Pathologist's Misconduct Ripples Through West Texas Courts

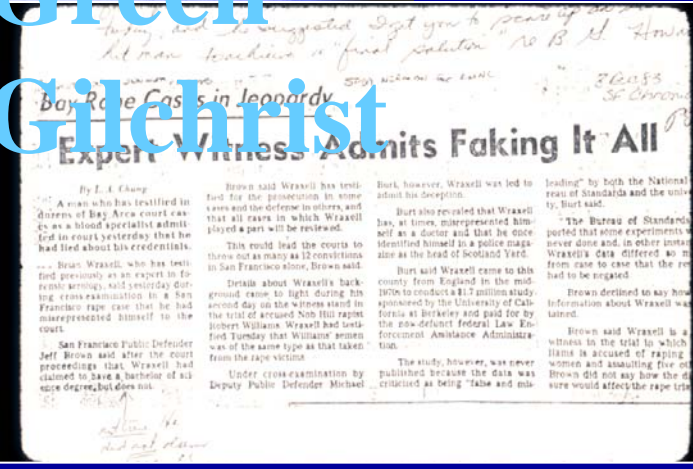
By ROBERTO Special to The New York Times
HOUSTON, Nov. 21 — The discovery of a pathologist's tampering with evidence in the Rio Grande region of West Texas has led to the conviction of four troopers and the acquittal of two more. The pathologist, Dr. Reich R. Froman, is accused of tampering with evidence in more than 100 cases across West Texas.



FALSIFIED LATENT PRINTS... CONTINUED

the September 1981 issue printed a newspaper article about the falsifying of fingerprints. The Chief of Police of Hopkin...
On October 17, 1981, edition... that Ex-Chief Donald E... to a year's probation. S. District Court told I...

- Melnykoff
- Zain
- Gregory
- Green
- Gilchrist



- Montana
- West Virginia
- Louisiana
- Cleveland
- Oklahoma

**Strengthening
Forensic Science
in The
United States:
A Path Forward**

**NATIONAL RESEARCH COUNCIL
OF THE NATIONAL ACADEMIES**

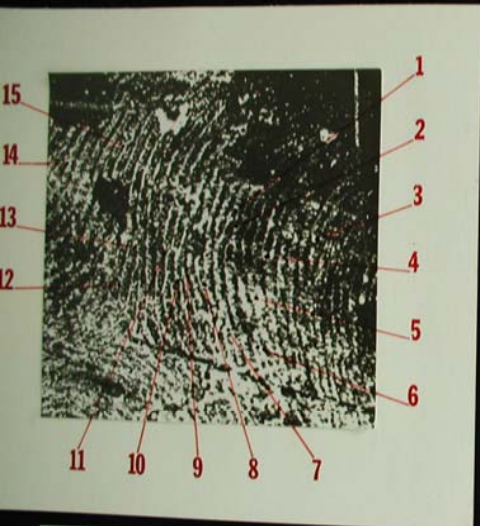
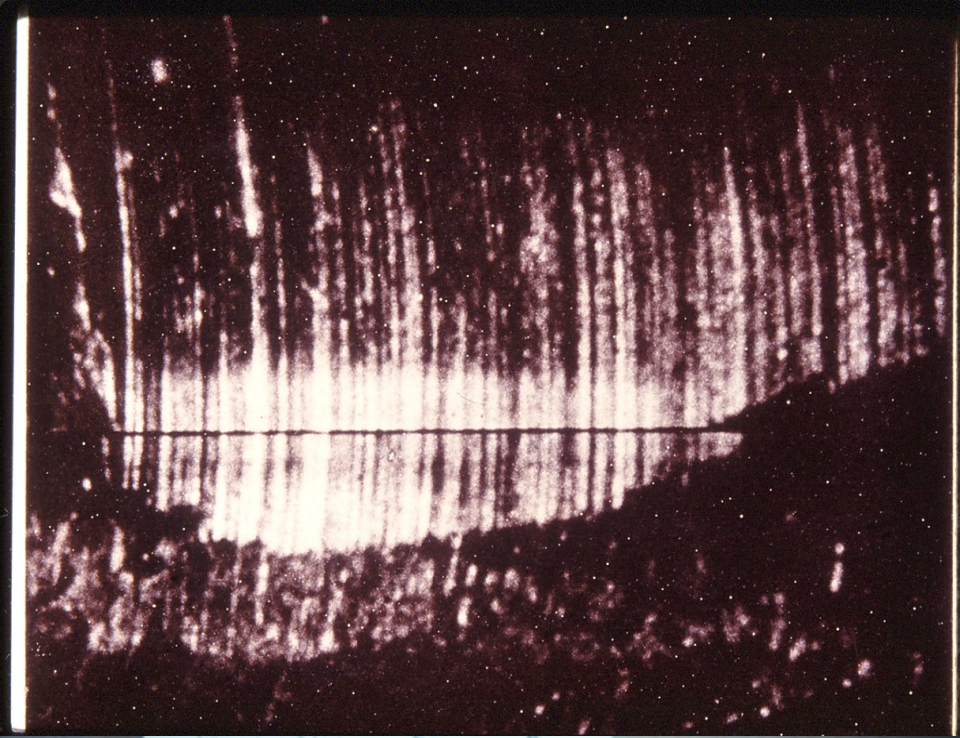
Traditional Forensic Identification

- Fingerprint
- Palm print
- Bullet & Casing
- Tool marks
- Shoe prints
- Footprint
- Bite marks
- Lip print
- Ear print
- Hair comparison
- Handwriting
- Signatures

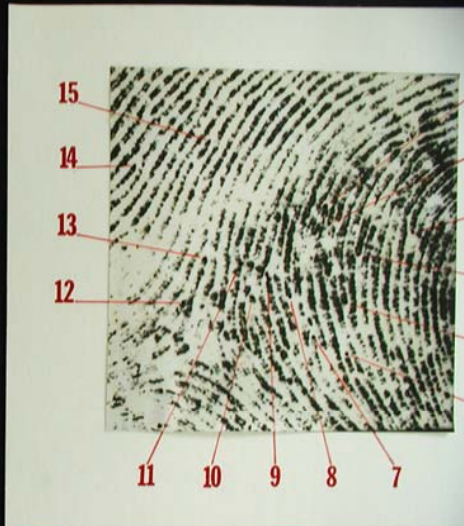
Paradigm Shift
in
Forensic Identification

Richard B. Craft
SALES SLIP

CHARGE
Richard B. Craft



BLOODY LATENT
FOOTPRINT



KNOWN FOOTPRINT





As officers drew their weapons, motorists crouched for cover on Falls Road in Rockville, Md., when a white van was stopped after a report of shots nearby. The driver of the van was released without charges.

THE INVESTIGATION
For the Authorities, Endless Frustration but Little Evidence in S

Continued From Page A1

snare the sniper, who has killed eight people, left two seriously wounded and terrorized this Washington suburb and surrounding counties for the last 10 days, is that they are waiting for this killer to make a mistake — and that may require that he shoot again.

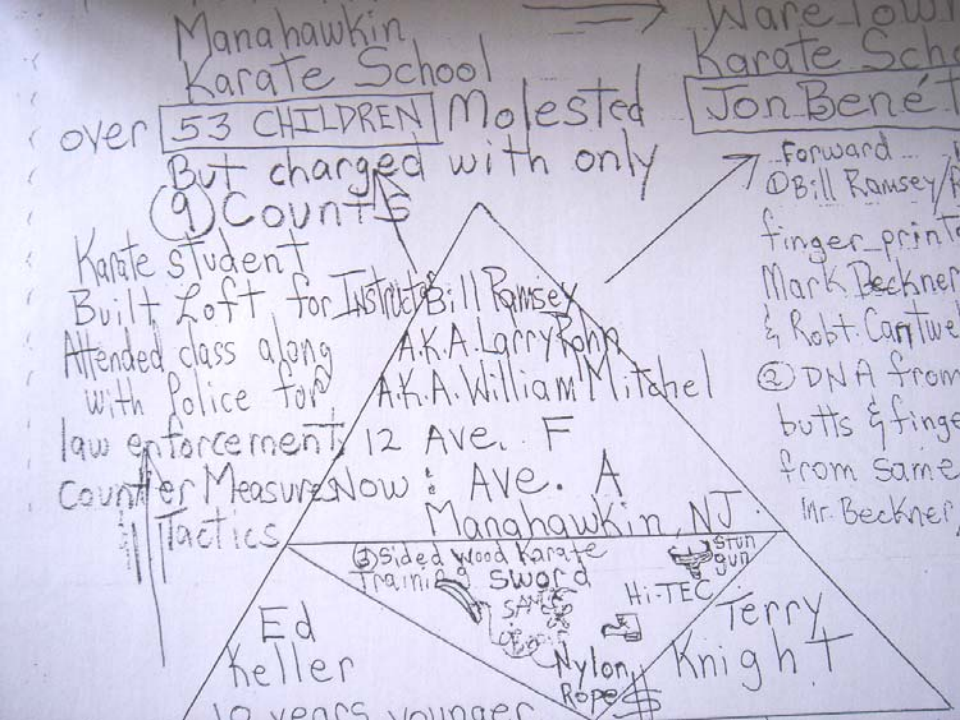
All this makes the investigation profoundly difficult and deeply frustrating, law enforcement officials and crime experts say.

"This case is different than almost every homicide case and almost every type of crime," said [Name].



shootings or came in the system for Washington hours, said [Name] Friday, the tip line rec officials sai 324-9800.

At a new Moose said takenly dia instead of th Houston so of the F.B.I Inc., change to provide



General Characteristics, Resultant Attitudes and Beliefs, and Deviant Behaviors of 36 Sexual Murderers

BACKGROUND CHARACTERISTICS

Family Background	Individual Development	Performance
Detachment	Dominance of fantasy	School failure
Criminality	History of personal abuse	Sporadic work record
Substance abuse		Unskilled employment
Psychiatric problems		Poor military record
Sexual problems		Solo sex
Inconsistent discipline		

RESULTANT ATTITUDES AND BELIEFS

- Devaluation of victim and society
- World viewed as unjust
- Authority/life viewed as inconsistent
- Autoerotic preference
- Obsession with dominance through aggression

DEVIANT BEHAVIORS

- Rape
- Mutilation
- Torture
- Murder



Examination of Evidence

- ❖ Recognition
- ❖ Documentation
- ❖ Enhancement
- ❖ Comparison
- ❖ Individualize
- ❖ Reconstruction

Science is no always black or white

Identification

DR. HENRY C. LEE

ting alone in the bar and was immediately attracted to him -
dition to looking incredibly sexy, he also looked out of
ight (or basically straight) man out for a night of what he
girlfriend. I went over and began talking to him - the minute I
e lift up and I knew that I wouldn't have to do much seducing
hot for it and it showed in everything he did. He was about
air and hooded eyes that I found a real turn-on. He talked about
d because he and his chick had broken up - "over sex stuff".
e meant he said that she wouldn't "commit". I said "Does
k your cock or (and here I was not in the dark) don't
ur ass?" His eyes widened and he struck a responsive
" he stammered.
straight guys come in here looking for a
iving ass virgins what they want is that
That's when I knew that I had to - my eyes
they dream of dick up their asses open for it with their
enerally get fucked the way that the buddies got a pussy -
He went and got me a drink (and he was beginning to act
- a good sign) and when he came back to the table, he all his
I began to caress his slim but muscular thigh and then I pulled
"I'm gonna give you this I whispered "it's nice and slow
it." He hesitantly fondled me "at 79" through my pants and
fuckin' hog , man. I don't know about you, but I reassured him
ger cocks up my own ass when I was his size (22) and that I
nice that he would feel little or nothing and that we could stop
t too uncomfortable.
down a little and his fondling of me had got more aggressive
outline. I made him follow me into the back room and I showed



Not Match is Easy



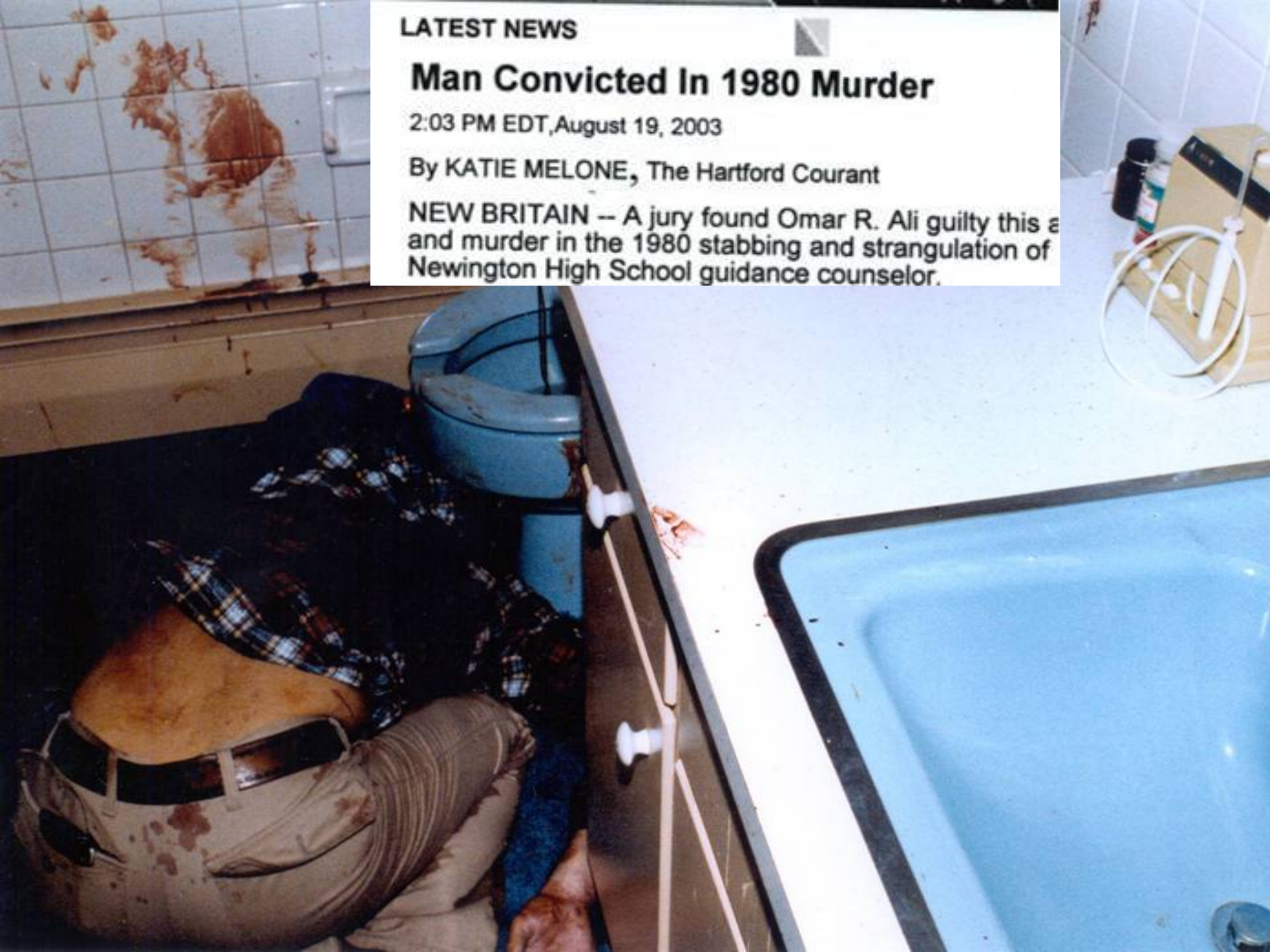
LATEST NEWS

Man Convicted In 1980 Murder

2:03 PM EDT, August 19, 2003

By KATIE MELONE, The Hartford Courant

NEW BRITAIN -- A jury found Omar R. Ali guilty this a and murder in the 1980 stabbing and strangulation of Newington High School guidance counselor.





BEFORE



AFTER

PERIODIC_BACKGROUND_REMOVAL

AVERAGE_POWER_SPECTRUM



160

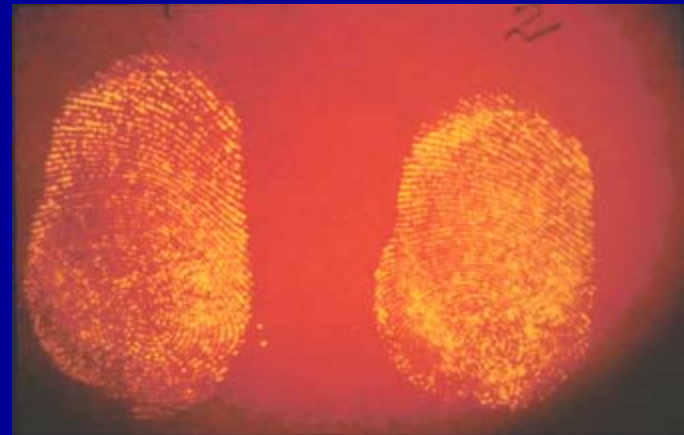
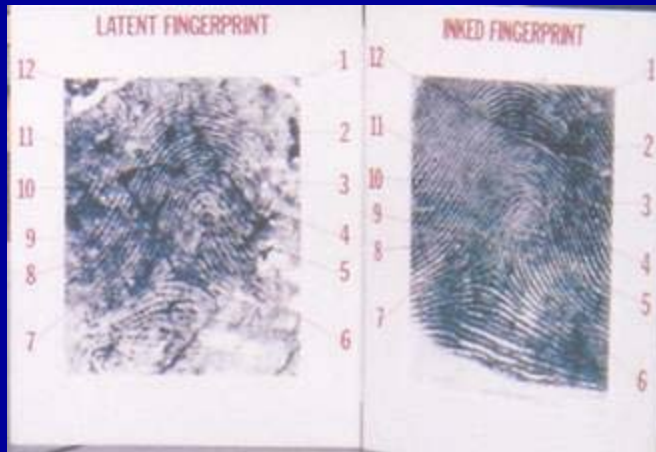
ICC-NC 31367
PA PUC 88093
TENN HF 2320



160



ICC-MC 31367
PA PUC 88093
TENN HF 2320



12 Points Match

1: 1,000,000,000,000 ?





15 Strations Match

P = ?

Display Specimen Info. ✓

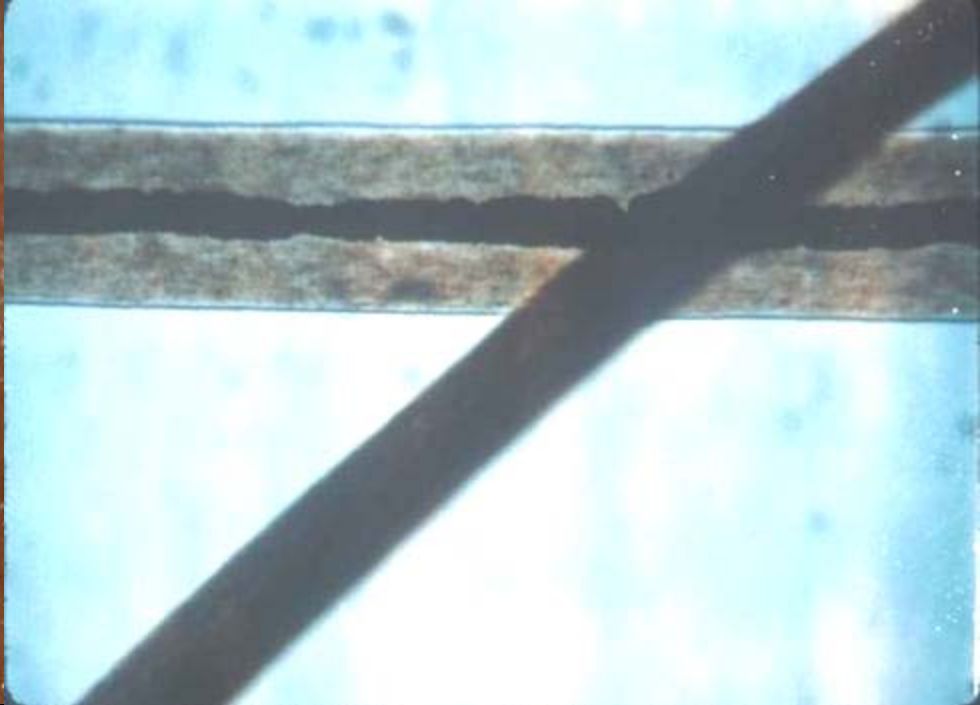
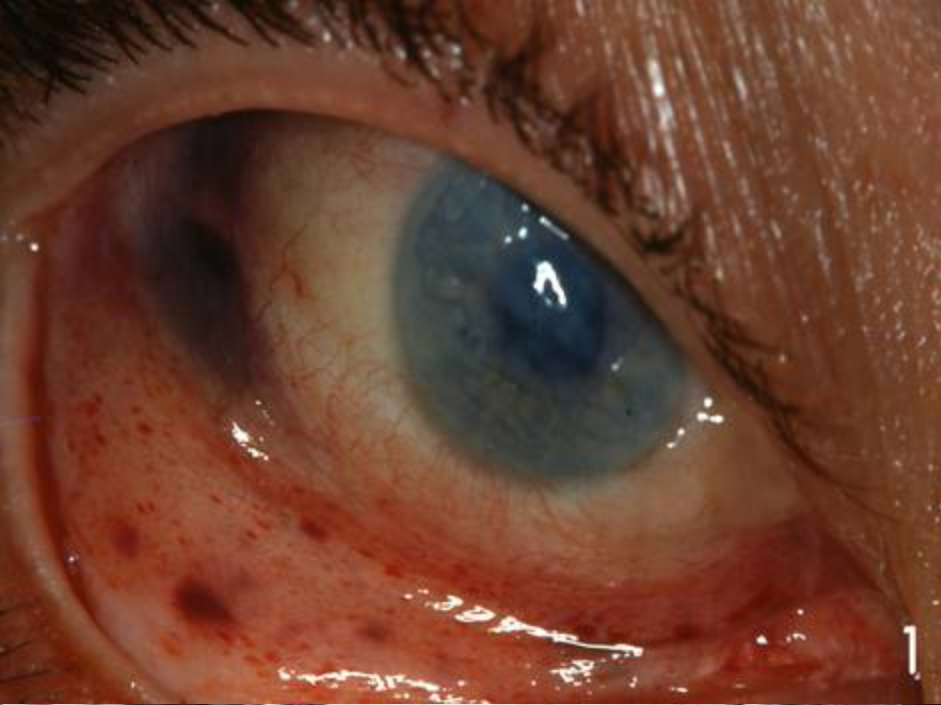
Case: 1000334
Spec: 1
Cal: 9LUG
Mag: 20X
Lab: MERL
Type: Ad-hoc Testire CC
Bank: Target Image

Case: 8203
Spec: 1
Cal: 9LUG
Mag: 20X
Lab: MERL
Type: Cartridge Case
Bank: 1

Case: 4731
Spec: 1
Cal: 9LUG
Mag: 20X
Lab: MERL
Type: Cartridge Case
Bank: 8

Case: 4738
Spec: 71
Cal: 9LUG
Mag: 20X
Lab: MERL
Type: Cartridge Case
Bank: 8







below:

(lvii) Reactant	C_p	amount	$mC_p(T-T_r)$ enthalpy energy
CH_4	$2.21 \text{ j/g}^\circ K$	16 g	954.7 joules
$2O_2$	$0.917 \text{ j/g}^\circ K$	64 g	1,584.6 joules
$7.524 N_2$	$1.042 \text{ j/g}^\circ K$	210.7 g	5,927.8 joules
total energy of reactants			8,476 joules

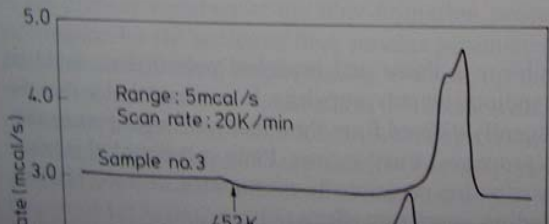
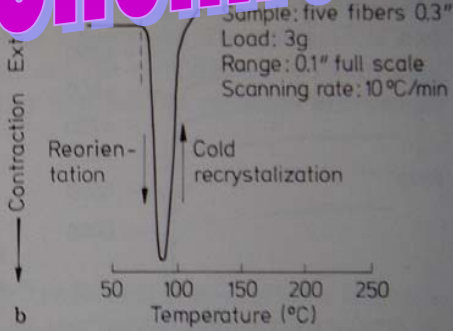
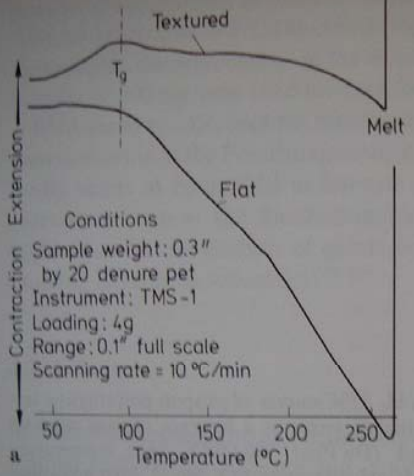
The equation for determining T is set up as before, except diatomic nitrogen is now included.

(lviii) $E_{total} = mC_p(T - T_r) + mC_p(T - 373^\circ K) + mC_p(T - T_r)$
 carbon dioxide water vapor nitrogen

$806,387 \text{ joules} = (44 \text{ g})(1.393 \text{ j/g}^\circ K)(T - 273^\circ K) + (36 \text{ g})(0.931 \text{ j/g}^\circ K)(T - 373^\circ K) + (210.7 \text{ g})(1.298 \text{ j/g}^\circ K)(T - 273^\circ K)$

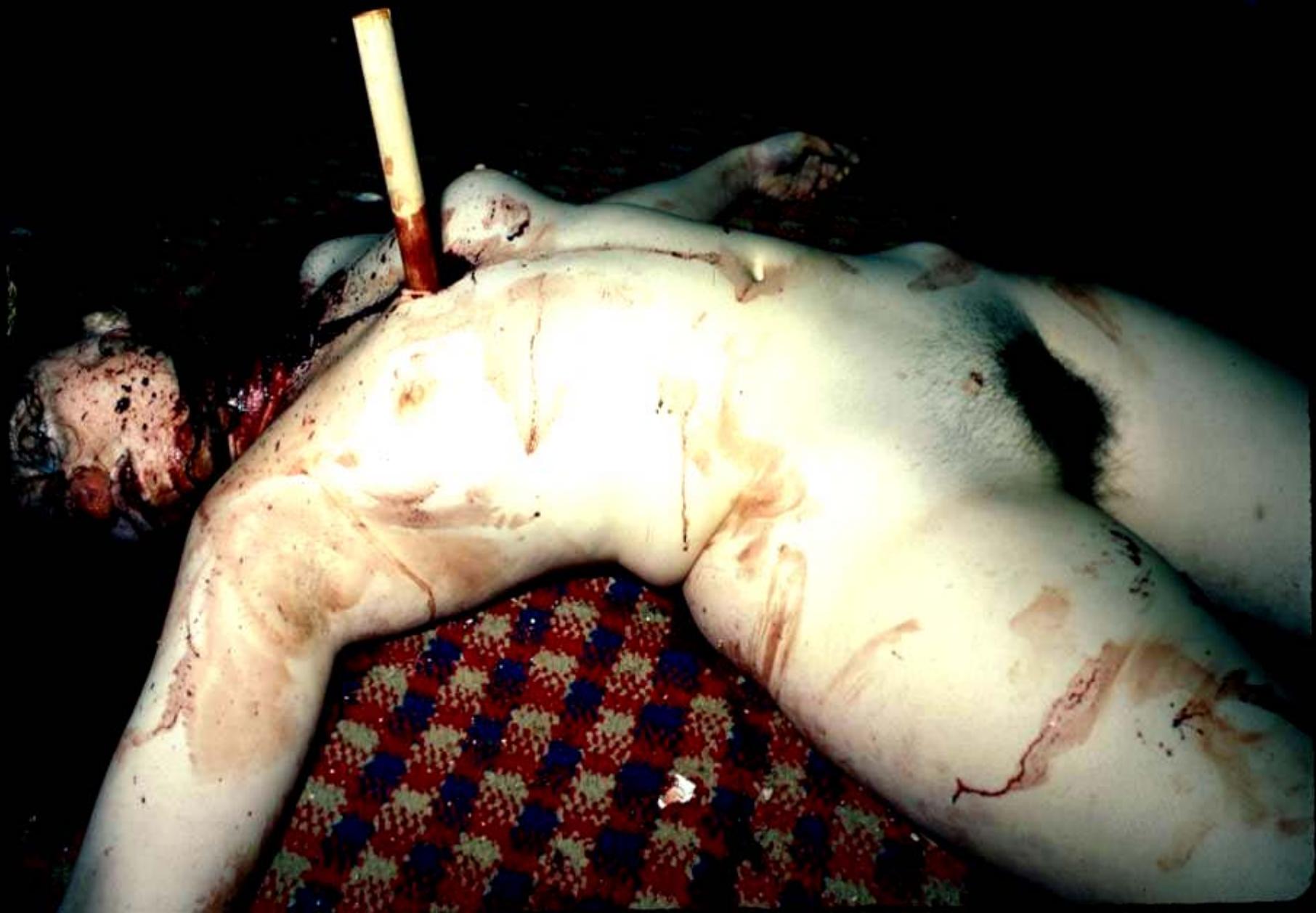
2006 6 16

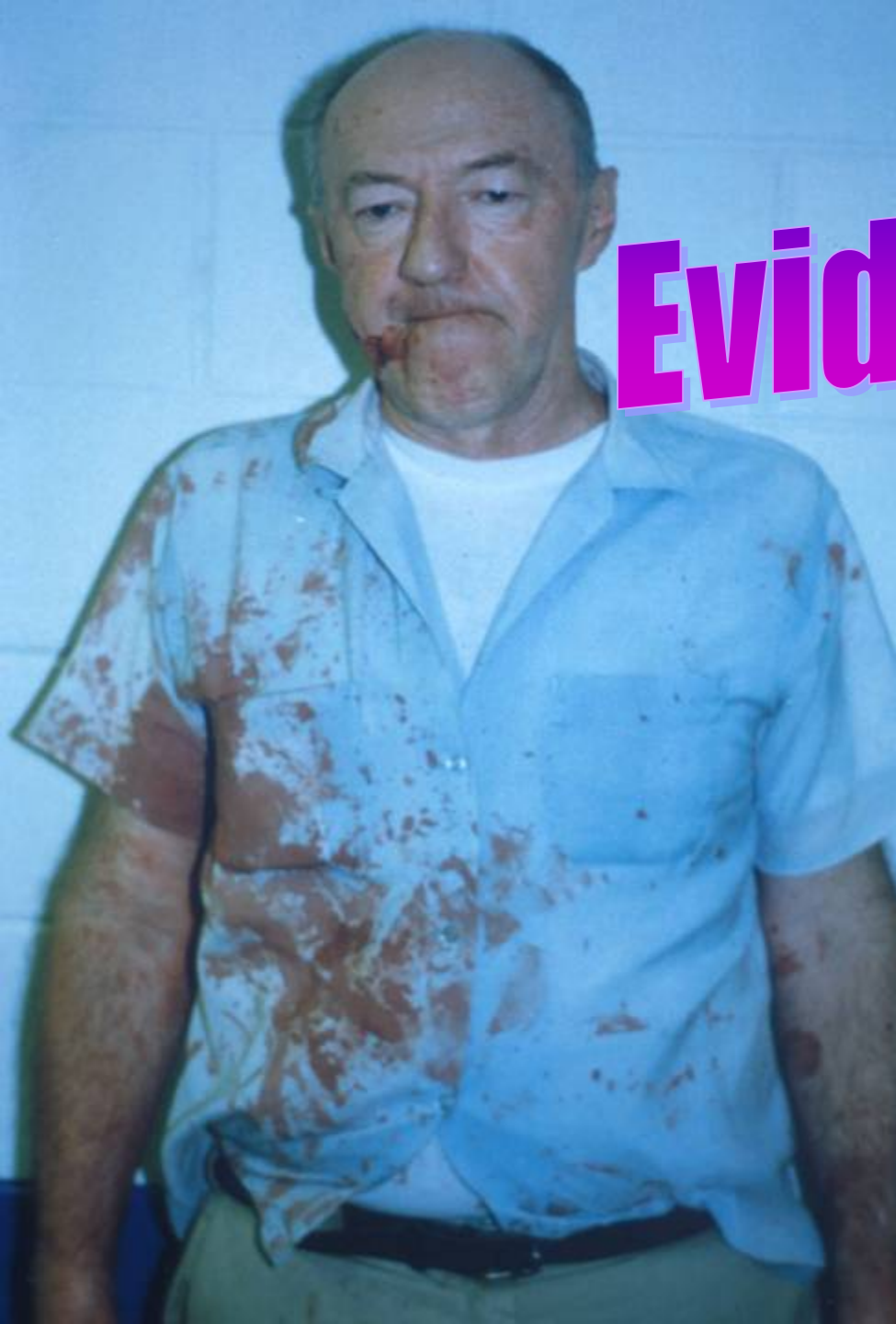
Chemical Analysis



2006 6 16







Evidence ?

DEC-19-03 10:47:14 A



Issues with Statistical approach to Forensic Evidence

- Crime Scene Evidence vs Laboratory Evidence
- The Nature & Types of Physical Evidence
- The unique issues with forensic evidence
- Inclusion, Exclusion & Consistent with
- Degree of Similarity
- Product Rule: $P = P1 \times P2 \times P3 \dots$
- Speculation, Logic deduction or Scientific fact

UTILIZATION OF FORENSIC EVIDENCE

Association

SUSPECT

Dissociation

Prove

STATEMENT

Disprove

Inculpatory

EVIDENCE

Exculpatory

Identification

MATERIALS

Individualization

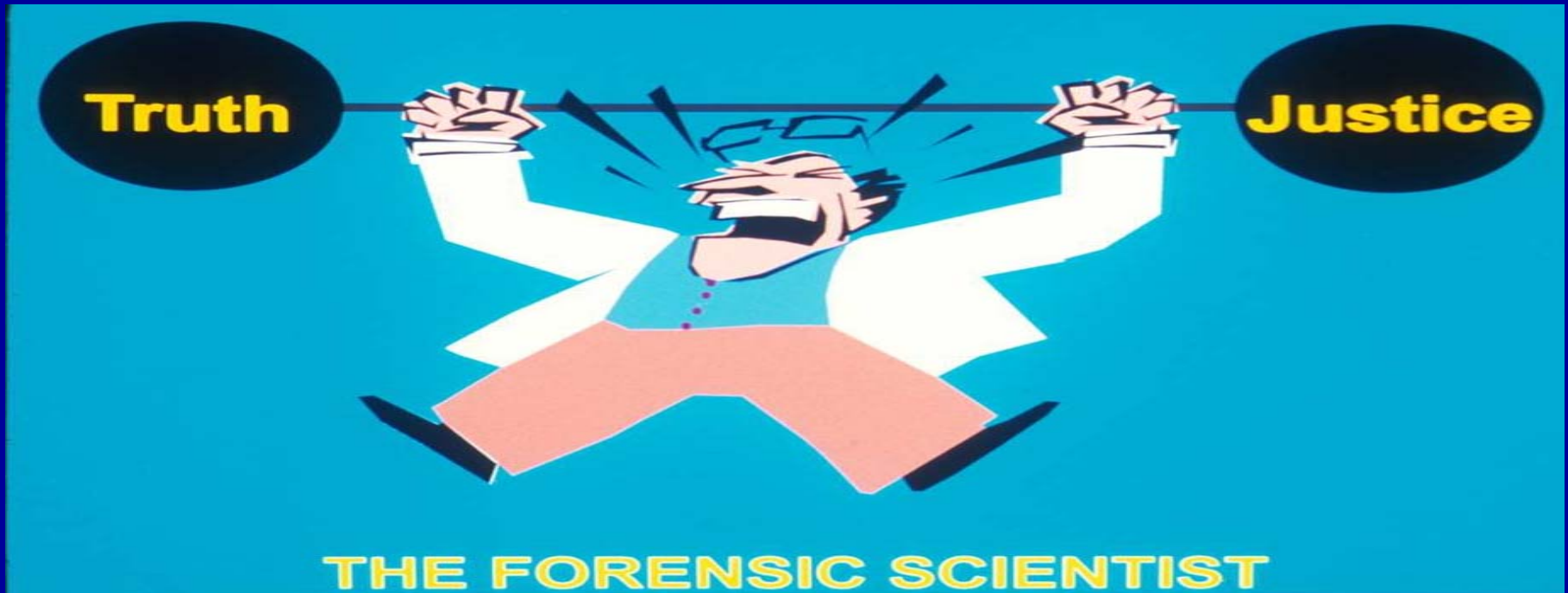
Confirmation

INFORMATION

Developing Leads

Criminal Justice System

Confidence, Trust of Citizen



Discrediting the Science



Discrediting the Scientist



Demeaning the Witness

- A View From The Bench
- Acting as a Non-Disclosed Expert: Moving the Goal Posts
- Communication In the Courtroom: How Experts Can Excel
- Correspondence Between Expert Witnesses and Counsel: Traps, Minefields, and Other Potential Disasters
- Dealing Effectively With Retaining and Opposing Counsel: Avoiding Abuse
- Direct Examination and Experts: How Experts Can Excel
- Discrediting the Truthful Expert Witness: How to Best Prepare for the Onslaught
- Effective Use of Computer Graphics By Experts: Cost-Effective Techniques That
- How Attorneys Really Select Experts: The Impact of Expertise, Experience, Reputation, Writing, Speaking, Marketing, Expert Witness Services, and Other Criteria
- How Lawyers Cross-Examine, Impeach, and Destroy Expert Witnesses
- How to Stand Up Under Cross-Examination and a Daubert Hearing
- Maintaining Your Integrity and Credibility In the Face of the Adversarial System
- Making the Complex Understandable: What Works for Expert Witnesses
- Marketing and Building a Forensic/Expert Witness Practice: Cost-Effective Techniques That Work
- Persuasiveness of Expert Witnesses:

STANDARDS

A graphic of a classical building with four columns and a pediment, rendered in white lines on a red background. A central black box contains a list of standards in yellow text.

Scientific

Legal

Procedural

Technical

Ethical

If all else fails

Lower your standards