



2022 SPRING SYMPOSIUM

This certifies that

Searchin Girl

has completed a 5-hour webinar entitled:

*"Can New Forensic Technology
Solve the JonBenet Ramsey Case?"*

April 26, 2022



Henry Lee

Dr. Henry C. Lee

Founder and Distinguished Professor

Issues & Problems Facing Today

- 1) COVID-19 Pandemics
- 2) Global Warming & Pollutions
- 3) Flood, Earthquake, Wildfire
- 4) War & Conflicts around the Global
- 5) Geopolitics, Ideological & Economics
- 6) Human Right & Bioethics Issues
- 7) Blurring of War and Crime
- 8) Ethic & Moral Standards
- 9) Society Value & Business Rules Shift
- 10) Life of Individual & Family
- 11) Social, Racial, Culture Conflicts
- 12) Transmutation of Lifestyle
- 13) Transnational & Global Crime
- 14) The Effects of Internet & Fake News
- 15) Crime, Criminal & Justice System



DELL



FBI estimates of life-time risk of becoming a victim of homicide: 1 out of

U.S. total	153
Male	100
White	164
Nonwhite	28
Female	323
White	450
Nonwhite	117

DELL

Ljubavni slučaj službenice PTT-

Cold Cases

- Case without Suspect
- Case cannot link to a suspect
- Case without Leads
- Case Run out of Leads
- Case reversed

4起
为同

Borçlarını ödeyerek öldüler!



ดร.เฮนรี พริด
ลวงจ้อยิมหัว

อัยการฯ แล
ศพทฯ ทล
แถมมีพยาน



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New Technology

Case Analytics

New Information

LUCK

Solution of Cold Case



Out Mute Hand Off

DELL

Share

Clod Case Investigation

- Finding new witness
- Increase public awareness
- Increase reward money
- Re-interview old witness
- Time line analysis
- Credit card, Telephone & record check
- Case management system tracking
- Re-examination of Physical Evidence
- Database mining results
- DNA evidence
- AI Anlytics
- Reconstruction of the Crime Scene

DELL

Investigators Connect Body in Submerged Car With Leg Found in 2018

In the morning of Saturday, November 17, 1984, the San Diego Sheriff's Office received a call from a woman who identified herself as John Doe. She stated that she had found a body in a submerged car in the San Diego Bay. The body was identified as John Doe, a 35-year-old man who had been missing since 1984. The body was found in a submerged car in the San Diego Bay. The body was identified as John Doe, a 35-year-old man who had been missing since 1984.



Genetic Genealogy Leads to Arrest in 1969 San Diego Rape, Murder

A former San Diego Police officer arrested for the 1969 rape and murder of a woman in San Diego was arrested after a genetic genealogy search identified him as the suspect. The man, who was 70 years old at the time of his arrest, was identified as the suspect through a genetic genealogy search. The man was arrested on charges of rape and murder. The man was identified as the suspect through a genetic genealogy search.

Kansas City Police Solve First Case Using Genetic Genealogy



Kansas City Police solved their first case using genetic genealogy. The man, who was 70 years old at the time of his arrest, was identified as the suspect through a genetic genealogy search. The man was arrested on charges of rape and murder. The man was identified as the suspect through a genetic genealogy search.



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Even though the man was poor, he was not pursued.

The Kansas City Police (KCCSO) recovered a body that they matched the

DNA Hit and Guilty Plea, Nurse Gets 65 Years for Two Brutal Rapes

A nurse who was sentenced to 65 years in prison for the rape of two young girls in Virginia was sentenced to 65 years in prison for the rape of two young girls in Virginia. The nurse was sentenced to 65 years in prison for the rape of two young girls in Virginia. The nurse was sentenced to 65 years in prison for the rape of two young girls in Virginia.



Golden State Killer suspect charged in 4 more slayings



Joseph James DeAngelo, suspected in the Golden State Killer slayings, was charged in four more deaths today when prosecutors in Santa Barbara County charged him with a

Out Raise Hand Q&A

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Forensic Technology

- Laboratory Automation
- Biometric Identification
- Trace Evidence Tracing
- E-Crime Technology
- Pattern Evidence Enhancement
- Chemical Evidence Data Base
- Genetic Profiling & Genealogy
- Facial Recognition & Tracking
- Crime Analysis & Reconstruction



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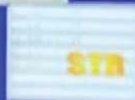
Crime Scene Detection

Forensic Light Sources

- UV, IR, Laser, Xenon
- Chemical Enhancement Reagents
 - Reagents react with fibers
 - Reagents react with Protein
 - Reagents react with elements
- Detection Instruments
 - X-ray, radar, Body Heat Imaging

Investigative Technology

- Image Enhancement & Analysis
- Digital Video Recording & Analysis
- Crime Scene Site Identification
- Electronic Monitoring
- Artificial Intelligence
- Biometric Identification
- Big Data & Cloud Computing
- Crime Mapping & Analysis
- Fraud & Deception Analysis
- Data Collection & Data Mining



Cold Cases Review



Crime Scene

Forensic
Evidence

Case Logics
Analytics

Time, Space,
Elements
Reconstruction

New Forensic
Technology

New
Information



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Timeline Summary

- 5:45 a.m. Patsy Ramsey descended a spiral staircase & found ransom note
- 5:52 a.m. dialed & call 9-1-1
- 5:56 a.m. officer Rick French arrived at the scene and made a search of the house
- 8:10 a.m. Boulder Police Detectives Linda Arndt and Fred Patterson arrived
- 10:15 a.m. Detective Mason arrived at police headquarters and met with FBI Special Agent Ron Walker

Timeline Summary

- 10:30 a.m. Secure the scene & cleared of nonessential personnel
- 11:45 a.m. Mason suggested Eller using tracking dogs at the Ramsey house
- 12:55 p.m. Linda Arndt suggested Lucas & Torrell with Ramsey the house.
- JonBennet body was found
- 1:05 p.m. Ramsey placed body on the floor of the front hallway
- 1:20 p.m. (approx.) -- Detective Michael Everett of the Boulder Police arrived at the house



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Medical Legal Death Investigation

- Victim Identification
- Manner of death
- Cause of death
- Type & Degree of injury
- Toxicological results
- Facts of Death



Cause of Death

- Gun Shot Wound
- Sharp Forces Injury
- Blunt Forces Injury
- Compression Forces
- Explosions
- Burn and Fire
- Electrical Injury
- Drug & Poisoning
- Drowning
- Thermal/Exposures
- Asphyxia
- Hanging
- Falling
- Chemical Injury
- Lighting
- Electrocutation
- Motor Vehicle
- Biological Agents
- Nuclear Agents
- Neglect/ Abuse



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Manner of Death

C.S.P.
Forensic Sub.

1. Homicidal death
2. Suicidal death
3. Accidental death
4. Natural causes
5. undetermined

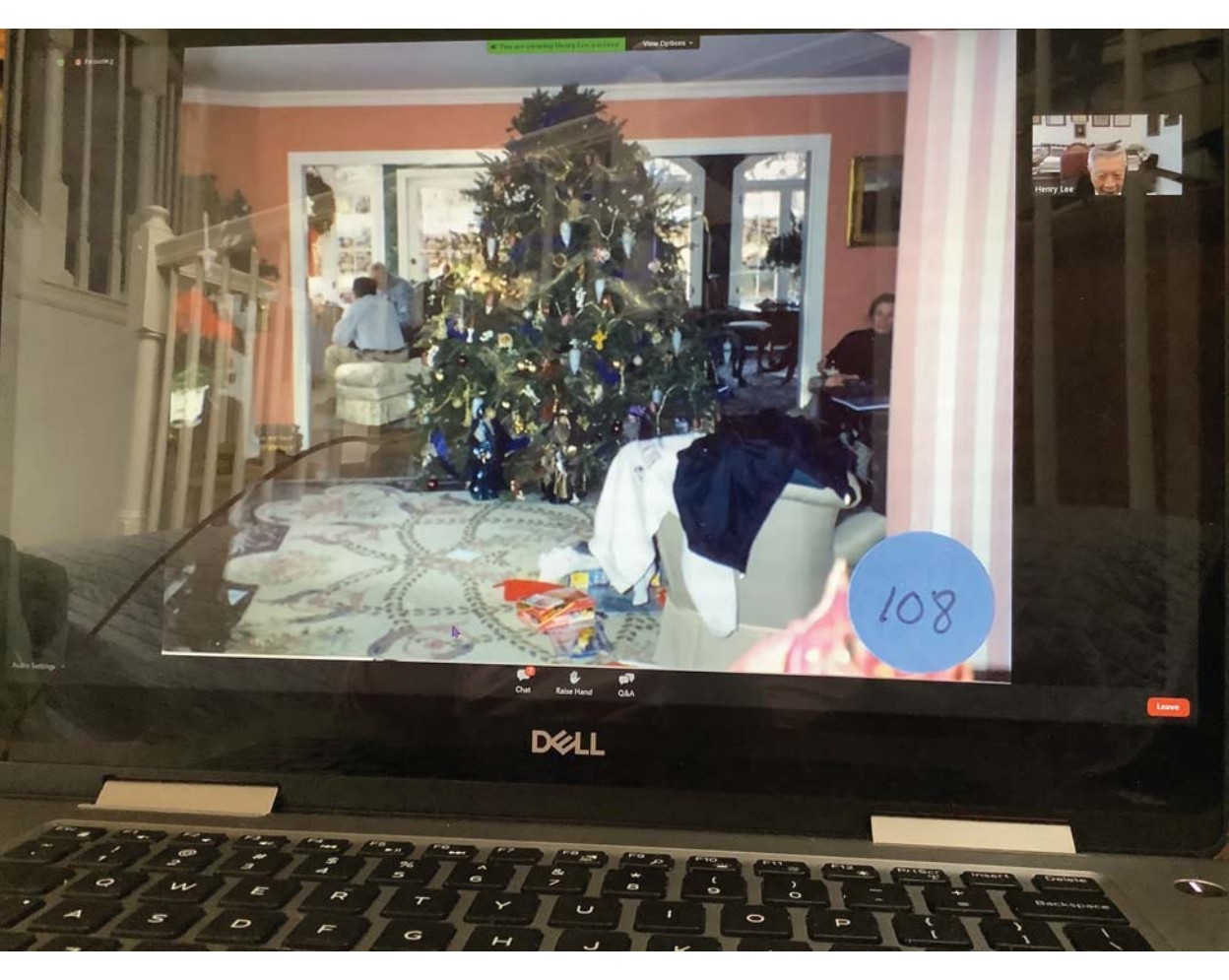


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Estimating Time of Death

- Cooling of the Body
- Rigor Mortis
- Postmortem Lividity
- Abdominal Contents
- Electrolyte Changes
- Degree of Putrefaction
- Corroborating Factors
- Very difficult to establish
- Usually a window of possibility (hours or days or months)





Zoom Meeting: You are viewing Henry's Screen

View Options



Henry Lee

108

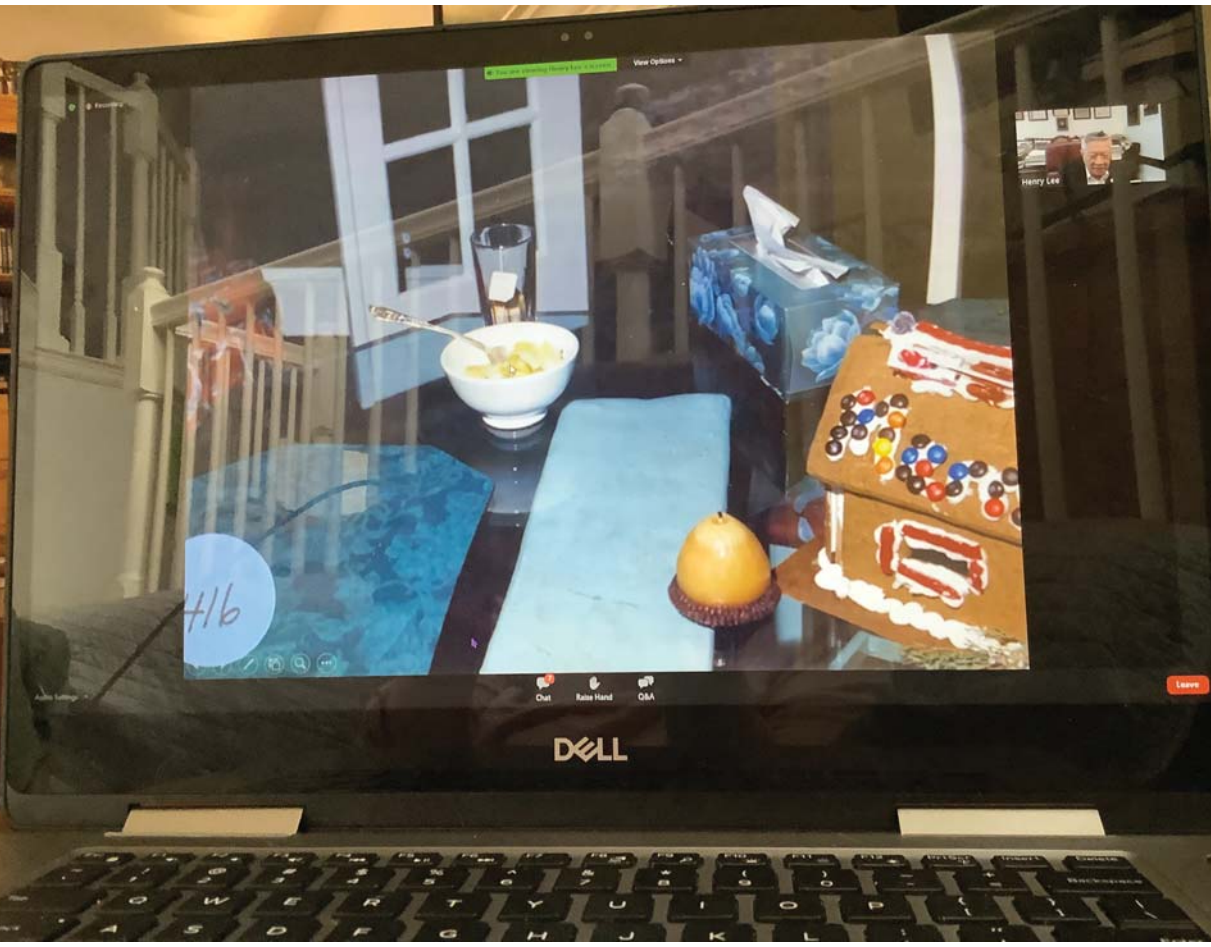
Chat

Raise Hand

QA

Leave

DELL



Share Screen

View Options



H16

Audio Settings

Chat Rate Hand OSA

Leave

DELL

Forensic Evidence

Transient	Evidence
Pattern	Evidence
Condition	Evidence
Transfer	Evidence
Medical	Evidence
Electronic	Evidence
Associative	Evidence



Out Raise Hand Q&A

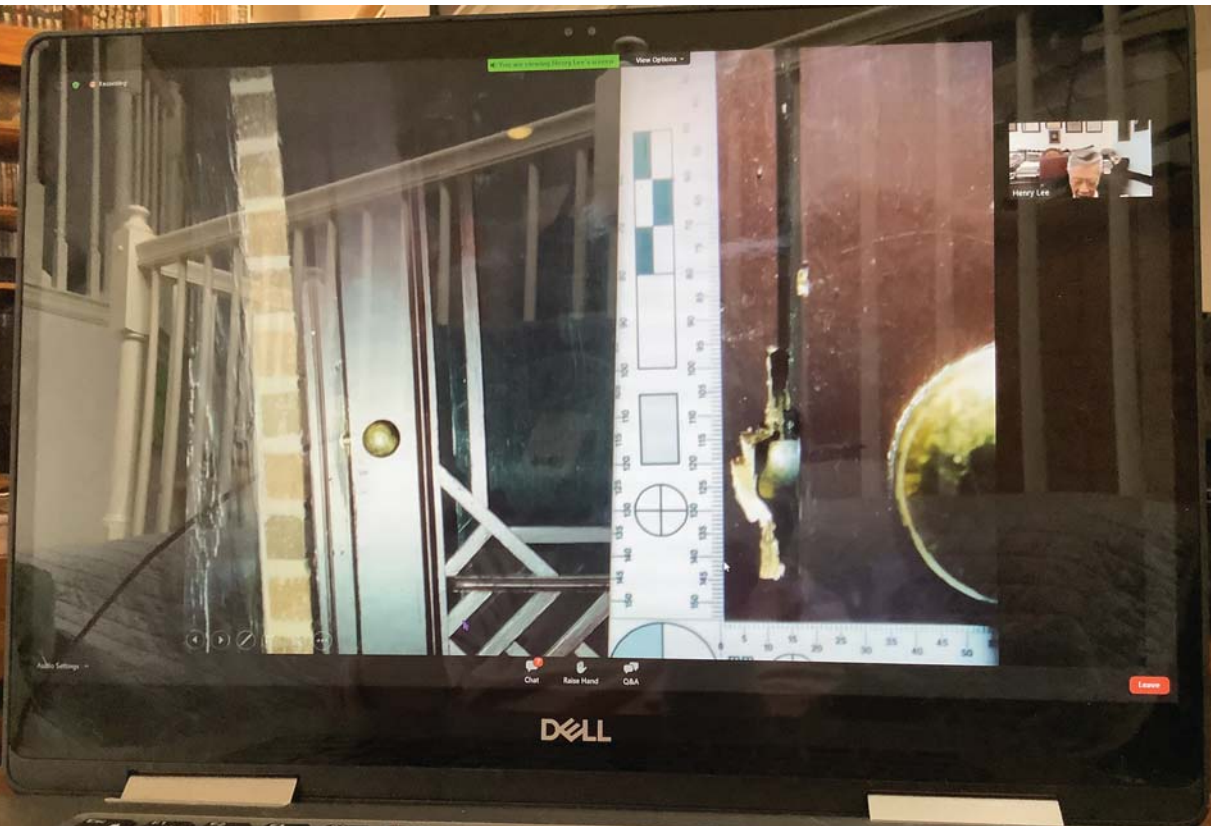
DELL

Leave

Pattern Evidence

- ❖ Fingerprints
- ❖ Hand prints
- ❖ Footprints
- ❖ Ear/Nose Prints
- ❖ Bite Marks
- ❖ Handwritings
- ❖ Wound & Injury
- ❖ Bloodstain Pattern
- ❖ Body Condition
- ❖ MO Pattern
- ❖ shoe prints
- ❖ Tire marks
- ❖ Bullet Casing striations
- ❖ Tool marks
- ❖ Cutting marks
- ❖ Machine marks
- ❖ Weapon marks
- ❖ Fire Burn Pattern
- ❖ GSR Pattern
- ❖ Trajectory Pattern





Technical Drawing Theory Lec 10

View Options

Henry Lee



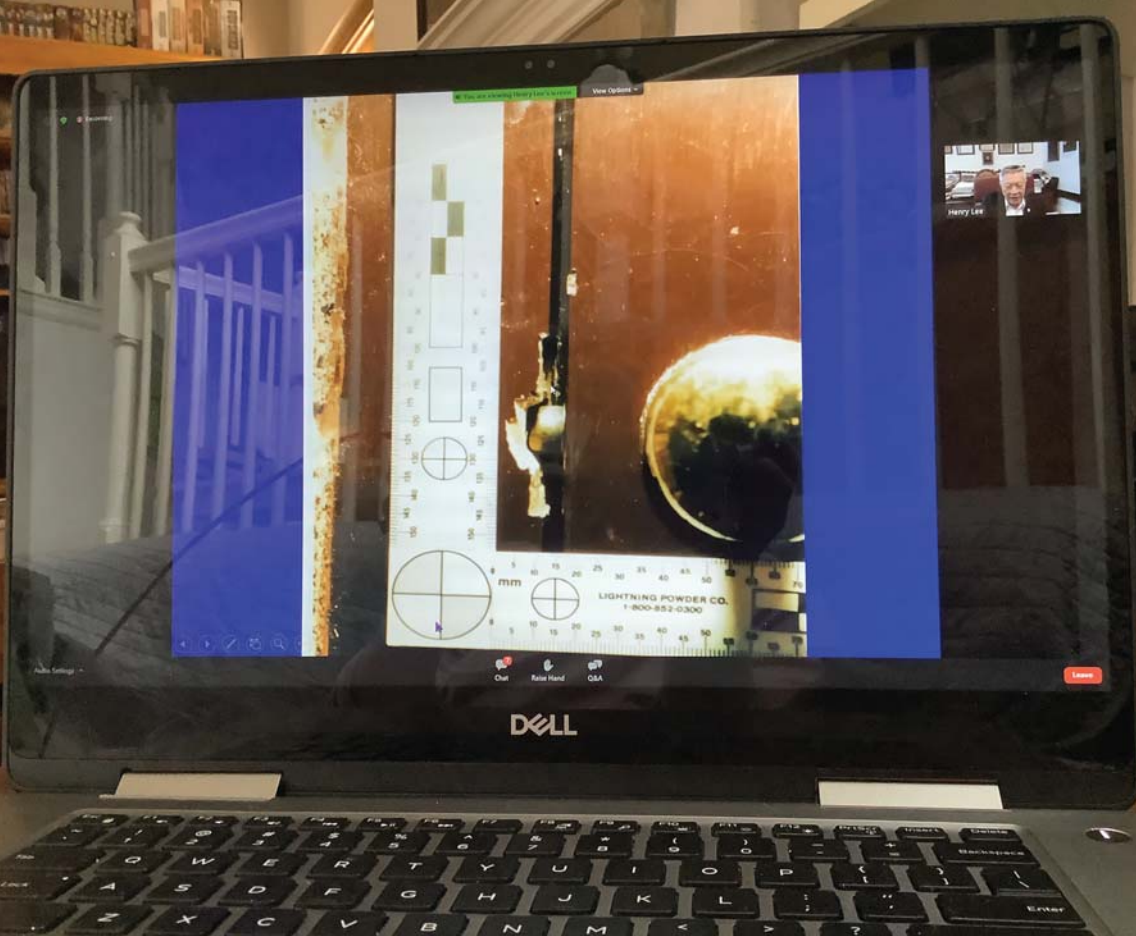
Henry Lee

Audio Settings

Chat Raise Hand QA

Leave

DELL



The following items are visible in the video call interface:

View Options

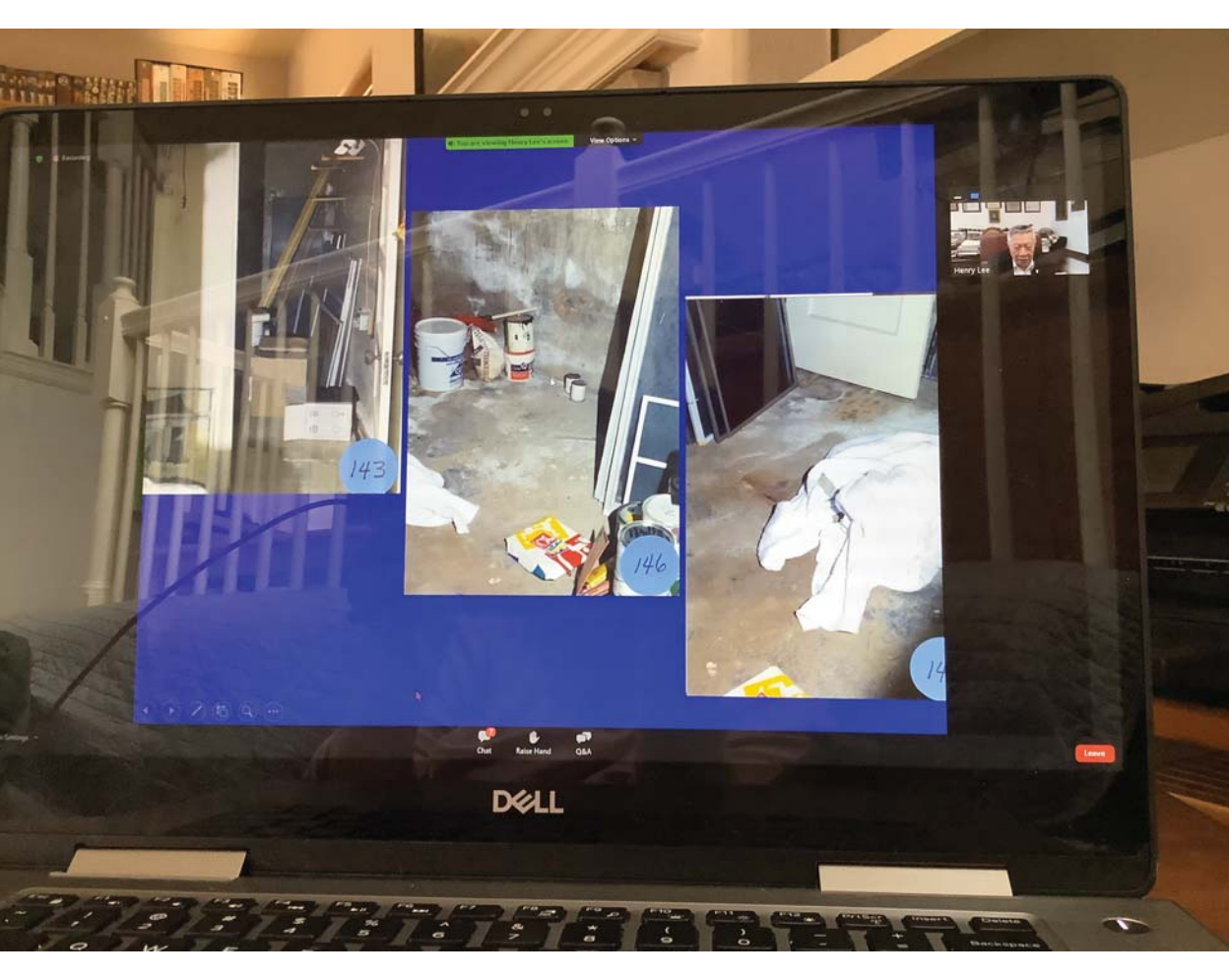
Harry Lee

mm
LIGHTNING POWDER CO.
1-800-852-0300

DELL

Chat
Raise Hand
QA

Leave



You are viewing Henry Lee's screen

View Options

143

146

14



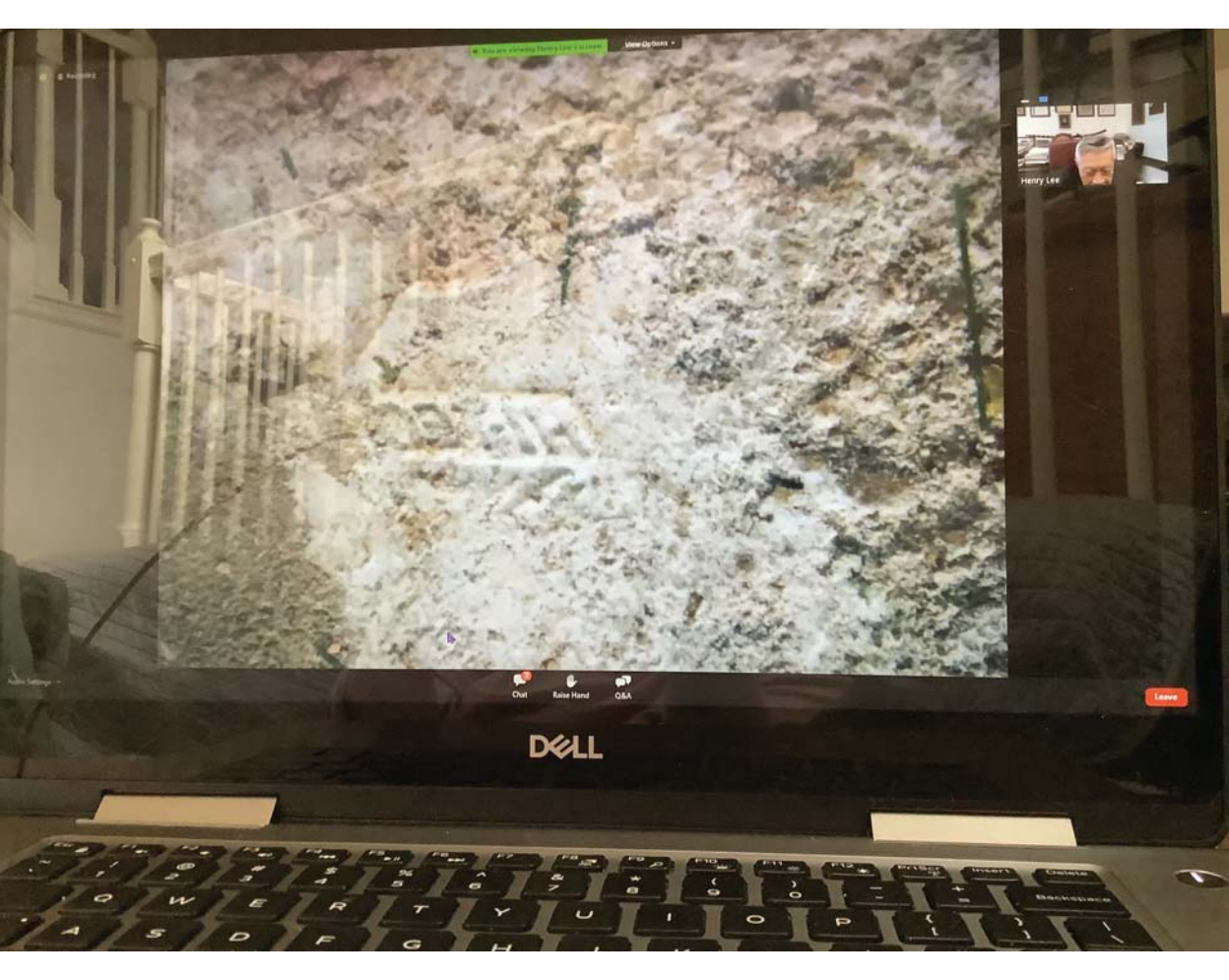
Henry Lee



Out Raise Hand GSA

Leave

DELL



You are viewing Henry Lee's screen View Options

Henry Lee

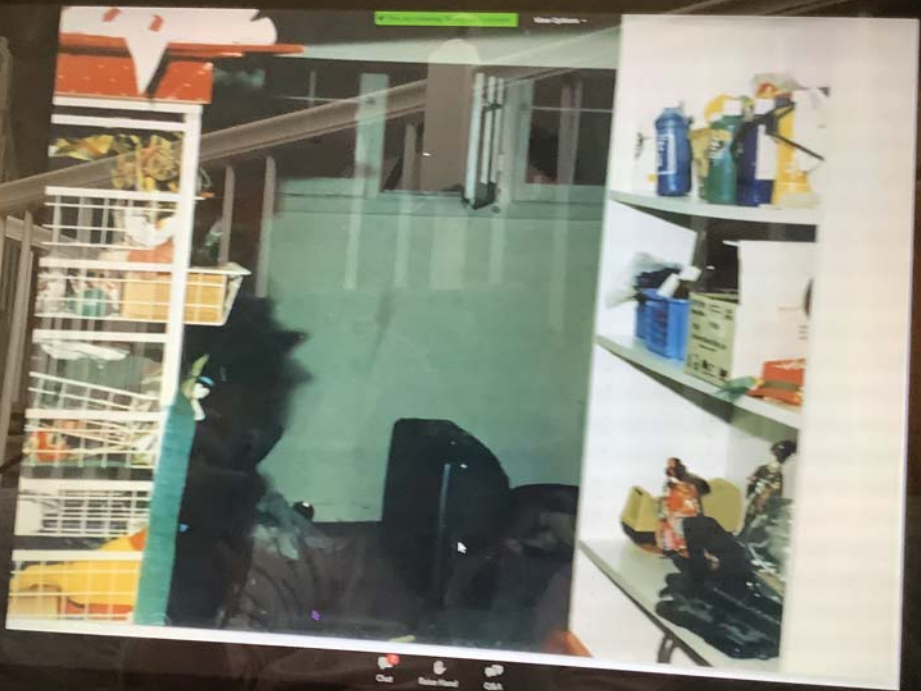


Henry Lee

Leave

Chat Raise Hand OSA

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Ctrl Enter Home C&A

DELL

Trace Material on Body

- Construction Material
- Soil, Sand, mineral
- Metal
- Plastic, Polymers
- Wood, Vegetative
- Fiber, Hairs
- GSR, Explosive



Chemical Evidence on Body

1. Glass material
2. Paint material
3. Cement / asphalt material
4. Oil / grease stains
5. Drug / poisons
6. Cosmetic residue



Biological Trace Evidence

- Grass
- Leaves
- Wood
- Plant
- Pollen
- Flowers
- Fruits
- Seeds



- Insect
- Maggot
- Tissue
- Fungus
- Furs
- Meat
- Bone
- Animal matter

Physiological Evidence

- Semen & Semen Stain
- Urine & Urine Stain
- Fecal Materials
- Tear, Milk, Bile
- Tissues and Bone
- Blood & Bloodstain
- Hair



DELL

Leave



Thomas connecting Henry Lee's phone

View Options



Henry Lee

⏏ Cut ⏏ Raise Hand 🗣️ Q&A

Leave

DELL

Linkage Theory





View Options



Out
Raise Hand
QA

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Record Breaking Efforts

- 60,000 case file records
- 1500 items of Evidence
- 100,000 + examinations & analysis
- 37 books
- 6 TV shows and Movie
- 1,000,000 news articles & TV reports

Crime Scene Issues

- Crime Scene Unsecured
- Scene alteration by family & friends
- Scene staging/ modification ?
- Scene Contaminations
- Incomplete documentation of the scene
- Failure to recognize potential evidence
- Improper collection & Preservation
- Over Interpretation



Chat Raise Hand GIP
GMA

DELL

Leave

Mr. Ramsey,

Listen carefully! We are a group of individuals that represent a small foreign nation. We ~~don't~~ respect your business but not the country that it serves. At this time we have your daughter in our possession. She is safe and unharmed and if you want her to see 1997, you must follow our instructions to the letter.

You will withdraw \$118,000.00 from your account. \$100,000 will be in \$100 bills and the remaining \$18,000 in \$20 bills. Make sure that you bring an adequate size suitcase to the bank. When you get home you will put the money in a brown paper bag. I will call you between 8 and 10 am tomorrow to instruct you on delivery. The delivery will be exhausting so I advise you to be rested. If we monitor you getting the money early, we might call you early to arrange an earlier delivery of the

368
Words
on white, lined
paper
8 1/2 by 11 inches in
size

Henry Lee

Chat Raise Hand Q&A

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DELL

money and hence a cashier
~~delivered~~ pick-up at your daughter.
Any deviation of my instructions
will result in the immediate
execution of your daughter. You
will also be obliged her remains
for proper burial. The two
gentlemen watching over your daughter
do particularly like you so I
advise you not to provoke them.
Speaking to anyone about your
situation, such as Police, F.B.I., etc.,
will result in your daughter being
beheaded. If we catch you talking
to a stray dog, she dies. If you
alert bank authorities, she dies.
If the money is in any way
marked or tampered with, she
dies. You will be scanned for
electronic devices and if any are
found, she dies. You can try to
deceive us, but be warned that
we are familiar with law enforcement
countermeasures and tactics. You
stand a 99% chance of killing
your daughter if you try to out-
smart us. Follow our instructions

several of the phrases used,
such as "I don't care if it's a
Pekinese pissing against a
lamppost," were from Dirty
Harry, a seventies movie that
starred Clint Eastwood. In the
movie Speed, Dennis Hopper
warns the authorities, "Do not
attempt to grow a brain." At 7:
30 on the night of December
25th, a Boulder channel
broadcast the movie, Nick of
Time, in which a political
terrorist group kidnaps a 6-
year-old girl, using the phrase,
"Listen to me carefully."



Chat Rate Hand O&A

Leave

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and you stand a 100% chance
of getting her back. You and
your family are under constant
scrutiny as well as the authorities.
Don't try to grow a brain
John. You are not the only
fat cat around so don't think
that killing will be difficult.
Don't underestimate us John.
Use that good southern common
sense of yours. It is up to
you now John!

Victory!

S.B.T.C

The actual handwriting analyses by the CBI & others were inconclusive, though most ruled out John Ramsey as the note's author, but there were indications that the handwriting was similar to that of Patsy Ramsey.





More Options



Henry Lee

Settings

Chat Raise Hand QA

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View Options



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View Options

THE RAMSEYS
"It's hard for people to accept that someone could come into a home and murder a child," said John (in 1997, with wife Patsy) in a July 9 TV interview.

JONBENET IN 1996

JONBENET RAMSEY CASE

NO LONGER SUSPECTS



Henry Lee

Chat Raise Hand Q&A

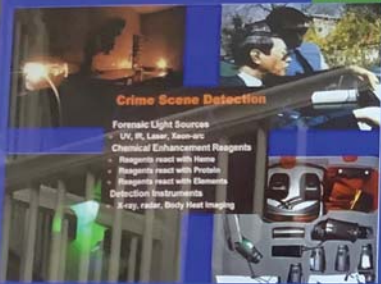
Leave

DELL

Theory vs. Hypotheses

	Crime Scene	Ransom Note	Pineapple	Body	Motive	Weapon
Father	?	Y	?	Y	Sex ? N	?
Mother	?	Y	Y	Y	Rage ?	?
Brother	?	N	?	?	Fight ?	?
Sex Offender	Y	N	N	?ta	Sex ?	?
Santa	N	N	N	?	?	?
Terrorist	N	Y?	N	N	Money	?
???????	?	?	N	?	?	?





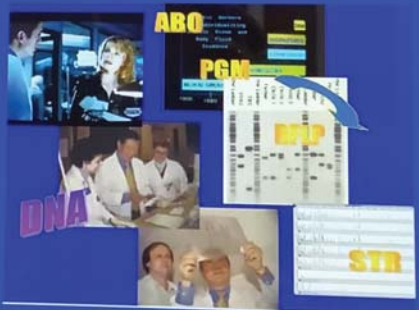
Forensic Technology

- Laboratory Automation
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Investigative Technology

- Image Enhancement & Analysis
- Digital Video Recording & Analysis
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- Electronic Monitoring
- Artificial Intelligence
- Biometric Identification
- Big Data & Cloud Computing
- Crime Mapping & Analysis
- Fraud & Deception Analysis
- Data Collection & Data Mining



New Advances in Forensic DNA

Equipment

Forensic DNA Analyzers

- Applied Biosystems 3500XL
- 3500XL
- 3500XL

Advanced Techniques

Advanced DNA Typing

- Rapid Biotin DNA Typing
- MiniSeq DNA Typing
- genotype
- FamilyTree
- Apparent

Kits

Forensic DNA Kits

- 2015 Forensic DNA Kit
- 2015 Forensic DNA Kit
- 2015 Forensic DNA Kit

Software

Forensic Software

- Autism Step 1
- Body Recognition
- Autism Step 1

Implementation of the New 23 CODIS Core Loci



Locus	Accession	Repeat	Size	Allele	Frequency
...

Physical Appearance

- Forensic DNA
- Physical Appearance

United States Physical Appearance

- United States Physical Appearance

Forensic DNA Analyzers

- Forensic DNA Analyzers

Physical Characteristics

- Physical Characteristics

Phenotypic Image of Person of Interest

- Phenotypic Image of Person of Interest

Family DNA Search

- Family DNA Search



Genetic Genealogy Provide a Lead in JonBenet Ramsey Case?

- Although genetic genealogy is not specifically referenced, it is one of the great advancements in DNA testing and analysis since 1996. Next-generation sequencing is another, as well as the development of equipment like the M-Vac collection system, for example.
- In the Ramsey case, the Boulder Police say the department has worked with the Colorado Bureau of Investigations (CBI) to ensure the DNA in the system can be compared correctly with new DNA samples that have been uploaded to ensure accuracy. In fact, CBI says it has updated over 750 reference samples with the latest DNA technology. That DNA is checked regularly for new matches.
- As of December 2021, the Boulder Police Department says it has processed more than 1,500 pieces of evidence related to the murder of Ramsey. The Major Crimes Unit has received, reviewed or investigated more than 21,016 tips, letters and emails, and detectives have traveled to 19 states to interview or speak with more than 1,000 individuals in connection to the crime.

Location of the Physical Evidence

- Location & Condition of Body
- Location & Condition of Clothing
- Location & Condition of Tape & Rope
- Location & Condition of Shoeprints
- Location & Condition of Note pad & Pen
- Location & Condition of Glass & Debris
- Location & Condition of Bowl, Pineapple & Dishes

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Potential Forensic Evidence

Underwear
DNA

Basement
Window

Garrote and
the Knot

Duct Tape

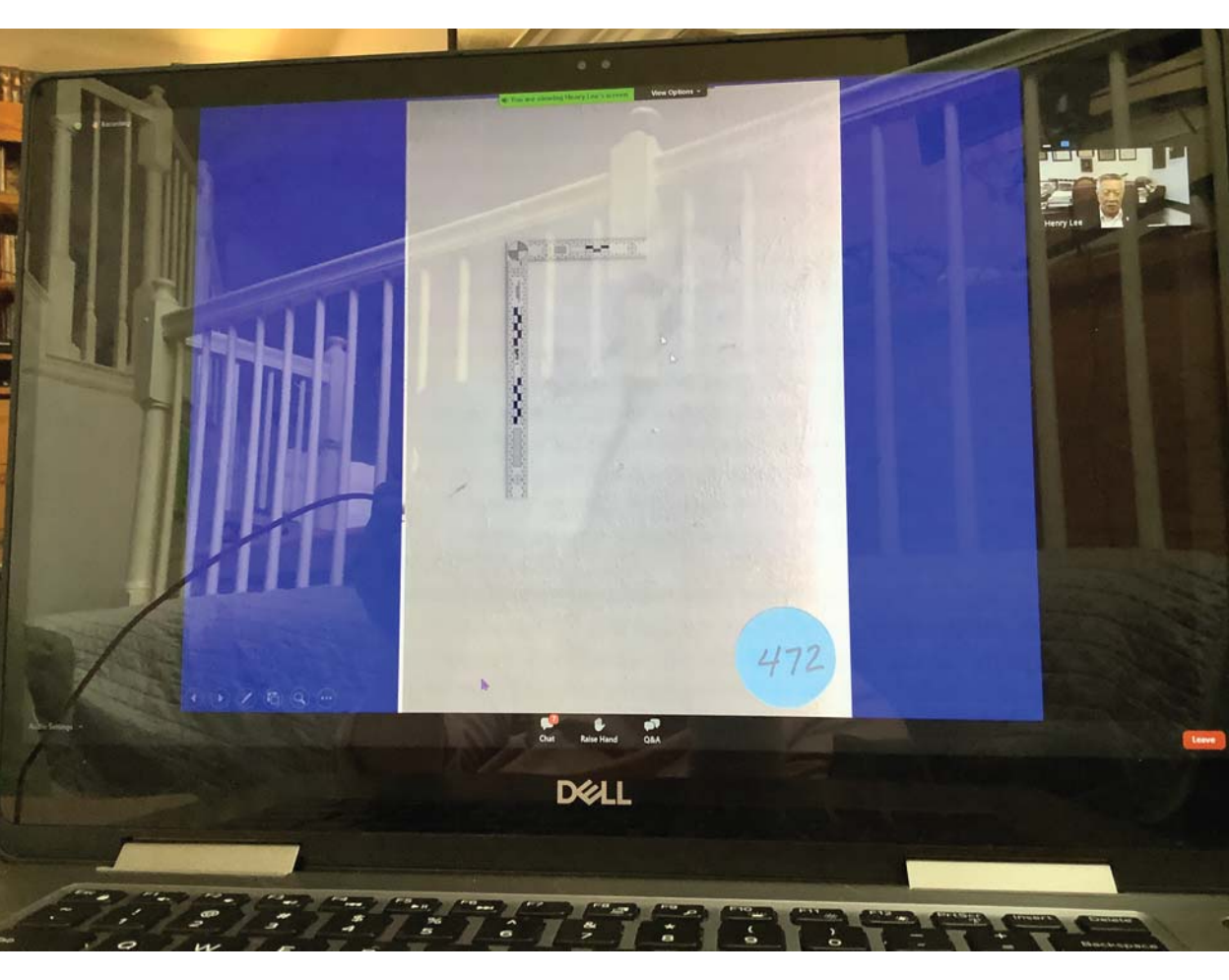
Bedsheets

Suitcase

Pineapple

Tea Bag,
Glass &
Bowl





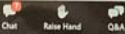
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Evidence & Statement

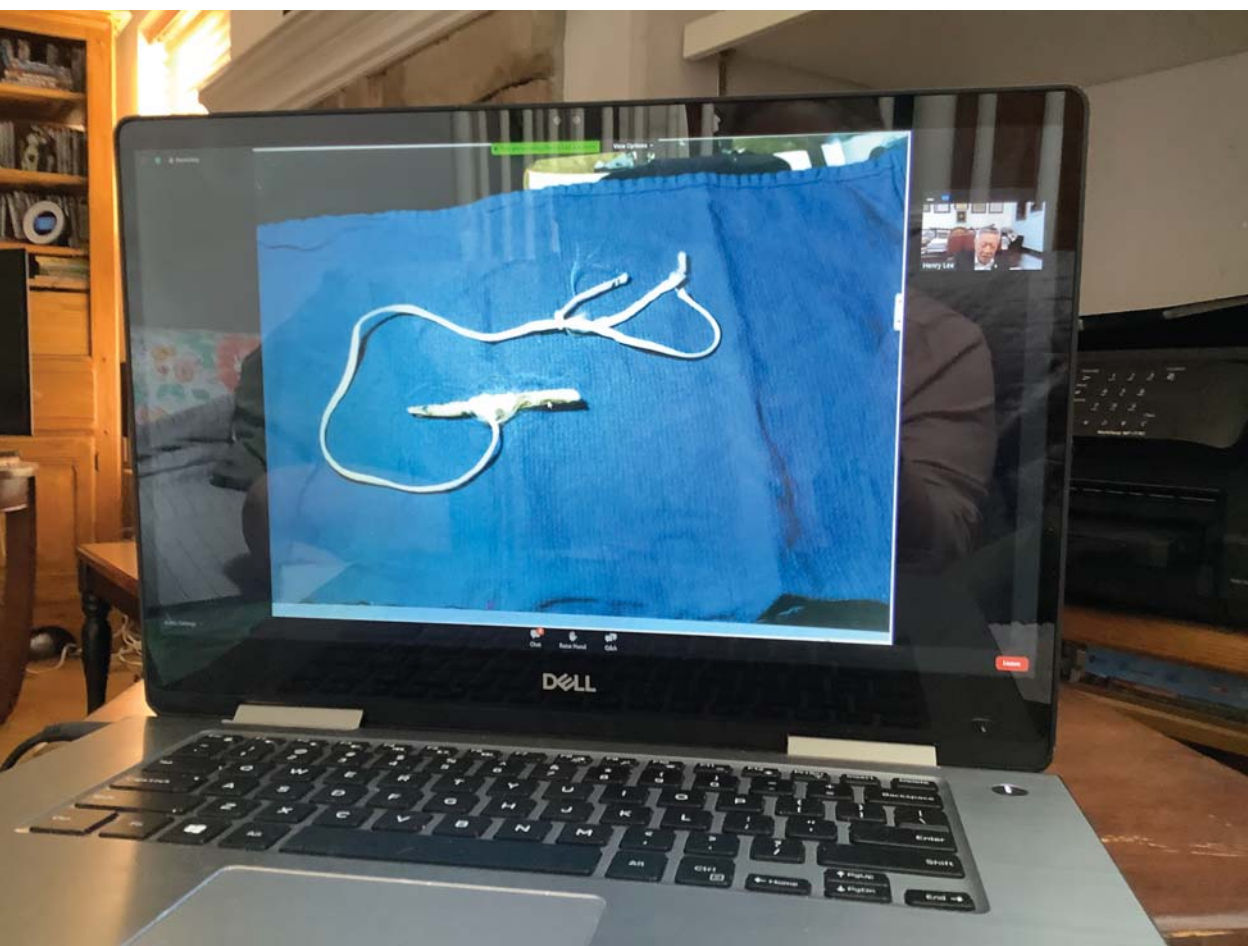
White blanket
Black duct tape
Pink nightgown,
Sanford Lucas



Chat Raise Hand Q&A

DELL

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Security

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Chat

Raise Hand

QA

Leave

DELL



View Options



Henry Lee



Chat Raise Hand Q&A

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