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## CV of Linda Luke

Linda M. Luke

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CORONER  
Elizabeth K. Balraj, M.D.

January 3, 2000

**Curriculum-Vitae:** Linda M. Luke, B.S.

**Employment:**

**Supervisor** Cuyahoga County Coroner's Office  
**1995 - Present** Trace Evidence Department (March 9, 1995)

**Forensic Serologist** Cuyahoga County Coroner's Office  
**1976-Present** Trace Evidence Department

**Education:**

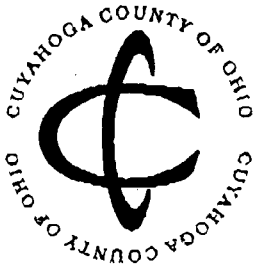
**1997** Diplomate, "American Board of Criminalistics"  
**1973** Bachelor of Science Degree in Biology from The University of Akron

**Specialized Training/Workshops:**

**1999** "DNA STR Training on ABI Prism 310" - Cuyahoga County Coroner's Office, Cleveland, Ohio. Course Instructor Dr. Muhammad Amjad, Marion County Forensic Laboratory, Indianapolis, IN., January 22nd thru 24th, 1999.  
"Mitochondrial DNA Sequence Analysis in Forensic Casework: Methods & Issues Workshop" - Coronado Springs Resort, September 29, 1999  
"10th International Symposium on Human Identification" - Coronado Spring Resort, September 29 thru October 2th, 1999.

**1998** "Forensic Polymerase Chain Reaction Typing Methods-DQA1 and Polymarkers" - Cuyahoga County Coroner's Office, Cleveland, Ohio. Course Instructor Dr. Mohammad Tahir, Marion County Forensic Laboratory, Indianapolis, IN. January 8th to 11th, 1998.

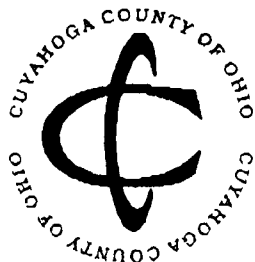
**1998** "Laboratory Auditing" - The National Forensic Science Technology Center, London, Ohio. Course Instructors William J. Tilstone, Ph.D. (NFSTC) and Richard Lester, FBI Quality Assurance Unit, March 9th and 10th, 1998.



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**Specialized Training/Workshops:**

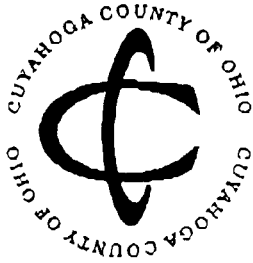
- 1998                   **"Forensic Polymerase Chain Reaction Typing Method D1S80"** - Cuyahoga County Coroner's Office, Cleveland, Ohio. Course Instructors Dr. Mohammad Tahir and Dr. K. Ballamurugan, Marion County Forensic Laboratory, Indianapolis, IN. October 17th to 20th, 1998.
- 1998                   **"Population Statistics in DNA Analysis"** - Cuyahoga County Coroner's Office, Cleveland, Ohio. Course Instructors Dr. George R. Carmody, Carleton University, Ottawa, Canada and Dr. Jennifer Smith, FBI Laboratory, Washington, D.C., December 8th and 9th, 1998.
- 1997                   **"Basic Principles of DNA Typing Course"** - FBI Academy, Quantico, Virginia. Assistant Director Donald W. Thompson, U.S. Department of Justice, Federal Bureau of Investigation. September 27th to October 3rd, 1997. Graduate Level Course.
- 1997                   **"Forensic DNA Typing Methods-Chemiluminescence RFLP Workshop"** - Cuyahoga County Coroner's Office, Cleveland, Ohio. Course Instructors Dr. Mohammad Tahir and Dr. K. Ballamurugan, Marion County Forensic Laboratory, Indianapolis, IN. November 8th to 13th, 1997. Workshop included extraction of DNA from forensic specimens including bloodstains and vaginal swabs and subsequent Analytical Agarose Electrophoresis and Probing.
- 1997                   **"RFLP Sizing Training Course"** - Bio-Image, Inc. Ann Arbor, MI. One day training for RFLP Sizing Software at Cuyahoga County Coroner's Office, Cleveland, OH. December 3, 1997. Included training on Gelprint Plus PC & Camera, Umax Powerlook II Scanner and Intelligent Quantifier 1-D for Windows 95.



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**Specialized Training/Workshops:**

- 1996                   **"Forsenic DNA Typing Methods-Chemiluminescence RFLP Workshop"** - Cuyahoga County Coroner's Office, Cleveland, Ohio. Course Instructors Dr. Mohammad Tahir and Dr. Gabriel E. Novick, Marion County Forensic Laboratory, Indianapolis, IN. December 10th to 15, 1996. Workshop included extraction of DNA from forensic specimens including bloodstains and vaginal swabs and subsequent Analytical Agarose Electrophoresis and Probing.
- 1992                   **"DQ Alpha Amplification & Typing Workshop"**  
Roche Diagnostics, Forensic Training Program.  
March 20, 1992.
- 1990                   **"PCR Workshop"** - Midwestern Association of Forensic Scientists. October 1-2, 1990.
- 1990                   **"DNA Extraction Technique Workshop"** -  
Midwestern Association of Forensic Scientists.  
October 3, 1990.
- 1978                   **"Bloodstain Analysis System"** - Serological Research Institute. Emeryville, California.
- 1977                   **"Bloodstain Analysis through Enzymes"** -  
Michigan State, Department of Health.



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**Professional Meeting:**

1998 Ohio Crime Lab Director's Meeting/Columbus, OH  
June 11, September 10th.

**Membership:**

Ohio Identification Officers Association,  
**Member**, 1997.

Cuyahoga County Child Protection Council -  
Evidence & Education Committee, **Member**, 1990.

Ohio Identification Officer Association (1986).

Midwestern Association of Forensic Scientists.

Bloodstain Evidence Specialists & Technicians  
Association: Best Justice through Education.

**Instructor:**

Ohio Peace Officer Basic Training Program.  
Specialized training in bloodstain analysis.

**Testified as Expert:**

Ashtabula, Cuyahoga, Erie, Huron, Lake, Lorain,  
Portage, Summit Counties and Grand Jury,  
Cuyahoga County.

**Special Project:**

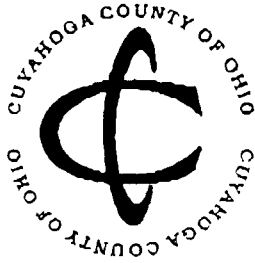
1992 Rape Crisis Sexual Assault Protocol  
Development, State Department of Health.  
Collaboration with Forensic Odontologist, Dr.  
Elizabeth Robinson, to aid social workers from  
various rape crisis centers in developing a  
protocol for the "Proper Collection of Sexual  
Assault Kit Evidence." Extensive collaboration  
with rape crisis centers from the east and west  
sides of Cuyahoga County as well as in  
Zanesville, Ohio.



CORONER  
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Recognition/Awards:

1999	"Physical Evidence Collection and Documentation in Crime Scene Investigations".
1998	"Physical Evidence Collection and Documentation in Crime Scene Investigations".
1997	"Physical Evidence Collection and Documentation in Crime Scene Investigations".
1995	Public Service Consortium of Greater Cleveland, OH. "Excellence in Public Service" - Officially recognized by Governor of the State of Ohio, George V. Voinovich.
1994	Resolution, "Focus of Crime Victim's Rights" week of April 24-30 - Officially recognized by Governor of the State of Ohio, George V. Voinovich.
1993	Olmsted Township Fire Department, Southwest General Hospital, Middleburg Heights. Continuing Education Program. "Safety Forces Together at The Crime Scene." December 7, 1993.



CORONER  
Elizabeth K. Balraj, M.D.

**Grant Awards:**

Instructor/Trainer and participated in the development, project and program development, evaluation, measurement, and management of the following grants:

**1995-1996**

**Investigations of Child Abuse: Analysis Upgrades and Interdisciplinary Training.** The Frost Foundation, Ltd. Santa Fe, NM and BP America, Inc., Cleveland, OH. A collaboration between Elizabeth K. Balraj, M.D., Cuyahoga County Coroner and The Honorable Stephanie Tubbs Jones, Cuyahoga County Prosecuting Attorney.

**1996**

**Multidisciplinary Training Program for Child Abuse Investigations Grant# 96-0336** from The Cleveland Foundation, Cleveland, OH. A collaboration between Elizabeth K. Balraj, M.D., Cuyahoga County Coroner and The Honorable Stephanie Tubbs Jones, Cuyahoga County Prosecuting Attorney.

**1997**

**Forensic Training Program Federal Award Grant# 96-DG-G03-7455**, through the Byrne Memorial Law Enforcement Assistance Program.

**1997**

**Electronic Imaging Research on Bitemarks and Fibers Award Grant# 94-DG-G02-7462**, through the Byrne Memorial Law Enforcement Assistance Program.

**1997**

**Ohio Statewide Consortium DNA Grant** through the National Institute of Justice. Forensic DNA Laboratory Improvement Program - Phase 2. Coordinated through Bureau of Criminal Investigation - State of Ohio.

**1998**

**Forensic Training Program Federal Award Grant# 97-DG-G03-7455**, Year 2, through the Byrne Memorial Law Enforcement Assistance Program.



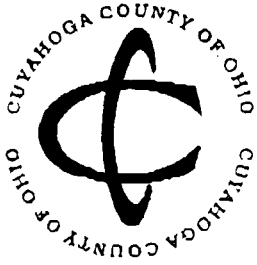
CORONER  
Elizabeth K. Balraj, M.D.

**Grant Awards:**

Instructor/Trainer and participated in the development, project and program development, evaluation, measurement, and management of the following grants:

1999	<b>Forensic Training Program Federal Award Grant# 98-DG-G03-7455, Year 3, through the Byrne Memorial Law Enforcement Assistance Program.</b>
2000	<b>Forensic Training Program Federal Award Grant# 99-DG-G03-7455, Year 4, through the Byrne Memorial Law Enforcement Assistance Program.</b>
2000	<b>Trace Evidence Study Federal Award Grant# 99-DG-G03-7411 through the Byrne Memorial Law Enforcement Assistance Program.</b>





CORONER  
Elizabeth K. Balraj, M.D.

**Publications:**

1997

Balraj, Elizabeth K., M.D., Luke, Linda, B.S.,  
Caramela-Miller, Sandra A., Ph.D. (1997).  
"Application of DNA Analysis to Forensic Cases:  
The Obvious and Subtle Physical Evidence."  
Update, Ohio State Coroners Association, Vol.  
11, pp. 4-6.

1997

Balraj, Elizabeth K., M.D., Luke, Linda, B.S.,  
Wentzel, James T., Caramela-Miller, Sandra A.,  
Ph.D. (1997). "Evidence Collection Training  
Manual for Law Enforcement," 65 pages.

**Professional  
Presentation:**

1994

Luke, Linda, B.S., Erdei, Linda, B.S., MT  
(ASCP) SC. (1994) "Conventional Serology versus  
New Age Technology".



CORONER  
Elizabeth K. Balraj, M.D.

Year 1999

Lectures/Training as invited instructor/guest lecturer:

JANUARY Cleveland Police Academy, "Trace Evidence/DNA".

FEBRUARY Southwest General Hospital "Trace Evidence Collection".

MARCH Oberlin College Part I and II "Trace Evidence/DNA".  
Garfield High School - "Trace Evidence".

APRIL Kent State University - "Trace Evidence".  
Dave Meyer College - "Trace Evidence".  
Richmond Heights - "Trace Evidence".

JUNE Health Museum Students - "Trace Evidence".

Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:

Olmsted Falls, Brooklyn Heights - "Crime Scene Seminar Workshop".

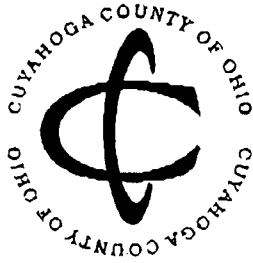
JULY Cleveland Lake Front State Park Dive & Rescue Recovery - "Trace Evidence".

Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:

Westlake, Bay Village, Lakewood, Brooklyn, Seven Hills - "Crime Scene Seminar Workshop".

AUGUST Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:

North Randall, Warrensville Heights, Highland Hills, Gates Mills, Beachwood, Highland Heights - "Crime Scene Seminar Workshop".



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(continued):

Year 1999

Lectures/Training as invited instructor/guest lecturer:

SEPTEMBER

Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:

Brookpark, Fairview Park, Bedford, Glenwillow, Shaker Heights, - "Crime Scene Seminar Workshop".

Case Western Law students - "Trace Evidence/DNA".

OCTOBER

Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:

Garfield Heights - "Crime Scene Seminar Workshop".

NOVEMBER

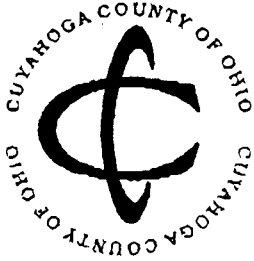
Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:

ODNR Watercraft - "Crime Scene Seminar Workshop".

The Cleveland Police Academy - Part I "Trace Evidence".

DECEMBER

The Cleveland Police Academy - Part II "Trace Evidence".



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**Year 1998****Lectures/Training as invited instructor/guest lecturer:**

JANUARY The Cuyahoga Valley Business Association, "DNA".

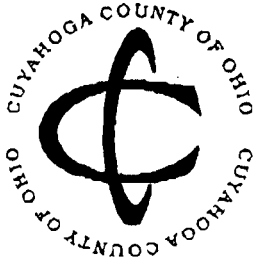
MARCH Orange Village, Emergency Medical Squad and Fire Department, "Protection of Evidence".

APRIL Strongsville High School Students - "Trace Evidence".  
Pathologists of the Cuyahoga Coroner's Office - "Trace Evidence/DNA".  
Merida South Pointe Hospital - Trace Evidence, Sexual Assault and Collection".  
Cleveland Homicide Unit - "Evidence Collection & Proper Sealing and Labeling of Evidence".  
Cleveland Clinic Emergency Department - "Rape Kit".

MAY Pathologists of the Cuyahoga Coroner's Office - Part I and II "DNA".

JUNE Pathologists of the Cuyahoga Coroner's Office - Part III and IV "DNA".

JULY FBI - "Trace Evidence/DNA" - Tour.  
Cleveland Health Museum Students - "Trace Evidence Department /Tour".  
Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:  
Walton Hills - Part I and II, North Randall, North Randall-Glenwillow, Middleburg Heights - Part I - "Crime Scene Seminar Workshop".



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(continued)

Year 1998

Lectures/Training as invited instructor/guest lecturer:

AUGUST

Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:

Lindale, Metroparks, Seven Hills, Independence, Parma Heights, Gates Mills, Highland Heights, Lyndhurst, Mayfield Heights, Mayfield Village and Richmond Heights - "Crime Scene Seminar Workshop".

SEPTEMBER

Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:

Garfield Heights, Chagrin Falls, Bedford, Strongsville and Brooklyn - "Crime Scene Seminar Workshop".

Prosecutor Lectures - Part I and II, "Trace Evidence/DNA" - Tour.

Case Western Law students - "Trace Evidence/DNA".

OCTOBER

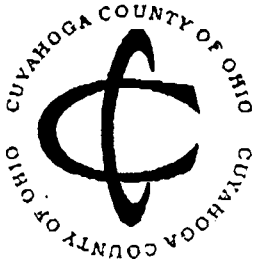
Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:

Middleburg Heights - Part II - "Crime Scene Seminar Workshop".

NOVEMBER

Criminal Justice, Kent State University - "Trace Evidence".

Juvenile Prosecutor Lecture - "Trace Evidence/DNA".



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Elizabeth K. Balraj, M.D.

Year 1997

Lectures/Training as invited instructor/guest lecturer:

MARCH

Memorial Junior High School, "Trace Evidence".

APRIL

National Black Police Association, "DNA".

Mentor Police Department, "Gunshot Residue, Trace Evidence, DNA New Testing, Current Requirements".

O I O - Ohio Identification Officers Association, Gunshot Residue, Trace, DNA".

MAY

University Hospital - Pathology Department, "Trace Evidence".

JULY

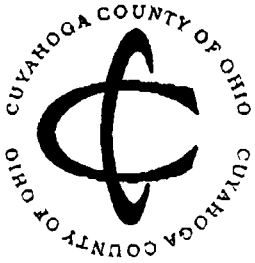
Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:

Avon Lake, Fairview Park, Beachwood, Bay Village, Norfolk Southern Railroad, Lyndhurst, Mayfield Heights, Westlake, Rocky River, Olmsted Township, Westlake EMS, North Olmsted, Olmsted Falls, Lakewood, Richmond Heights, Mayfield Village and Highland Heights - "Crime Scene Seminar Workshop".

AUGUST

Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:

Berea, Avon, Westlake, Rocky River and Strongsville - Crime Scene Seminar Workshop".



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Elizabeth K. Balraj, M.D.

(continued)

Year 1997

Lectures/Training as invited instructor/guest lecturer:

SEPTEMBER

Case Western Law Students - "Trace Evidence & DNA".

Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:

Brooklyn Heights, Independence, U.S. National Parks, Avon, Olmsted, North Royalton, Strongsville, Brecksville, Mentor, Rocky River, Pepper Pike and Cleveland Metroparks Rangers - "Crime Scene Seminar Workshop".

OCTOBER

Detectives, Patrolmen and Evidence Technicians from the following municipalities were trained in an intensive, hands-on, mock crime scene format:

Solon, Maple Heights, South Russell, Woodmere, Chagrin Falls, Hunting Valley, Seven Hills, National Park Service, Sagamore Hills, Brooklyn Heights, Independence, Moreland Hills, Beachwood, Orange, Parma and Brecksville - "Crime Scene Seminar Workshop".

DECEMBER

Kent State University Students - "Trace Evidence."



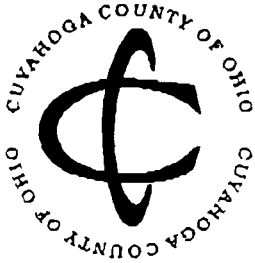
CORONER  
Elizabeth K. Balraj, M.D.

Year 1996

Lectures/Training as invited instructor/guest lecturer:

JANUARY	Shadow students - Euclid, Middleburg Heights and Berea
FEBRUARY	Chris Bates, Anthropology student - Volunteer Hathaway Brown School, Senior Class - "Trace Evidence" Case Western University Law School - "Principles of DNA" Belinda Prinz - TV8 News - "DNA"
MARCH	Protocol VA Hospital - "RAPE"
APRIL	Case Western University Biology - "Principles of DNA"
MAY	State Highway Patrol - "Crime Scene" Lorain County Crime Lab students - "Principles of DNA"
JUNE	Shaker Heights Basic Police - "DNA"
JULY	Brentley Institute - "Trace and DNA"
SEPTEMBER	Kent State - "DNA" Valley Enforcement Group - "Trace and Serology", (2 full days - 2 separate groups)
OCTOBER	Valley Enforcement Group - "Trace, Serology and collection of Evidence", (3 full days and 3 separate groups) Shaker Heights Basic Police - "DNA"
DECEMBER	University Hospital Pediatric Trauma - "Collection of Evidence" Workshop - "Forensic DNA Typing Methods- Chemiluminescent RFLP"



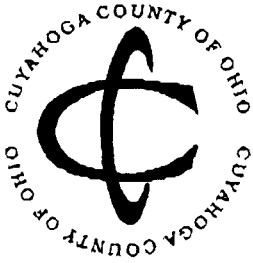


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Year 1995

Lectures/Training as invited instructor/guest lecturer:

January	Prosecutor's, "Role of Trace Evidence Department" American University Washington D.C., Shadow Student.
February	"DNA" - Case Western Reserve Law School. "Observation Day" - Willoughby, Eastlake City Schools.
March	"DNA" - Parma Heights Police Department. "DNA" - Case Western Reserve University, Biology Department. "Collection of Trace Evidence" - Elyria Police Officers. EMS, "DNA and Tour". St. Joseph Academy, Student, "DNA".
April	Live on Channel 8 - "DNA and Crime Scene Contamination". Lorain Community College, "DNA/Collection". Elyria Police Department, Techs, "Collection of Trace Evidence". Warrensville Heights Basic Police School, "Some case aren't what they seem to be Suicide? or Homicide?" Solon High School, Shadow Student. Parkside Middle School, Shadow Student.
May	Laurel High School, Shaker Heights, "Trace Evidence and DNA".
June	Shaker Heights Police Department Basic School, "DNA and Blood Characteristics".



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Year 1995

Lectures/Training as invited instructor/guest  
lecturer:

July

Emory University Senior Pathology, Shadow Student,  
"Trace Evidence".

Solon High School, Shadow Student.

Visitors from Russia, "Tour of Trace Evidence  
Laboratory".

August

Merida South Point "A", "Crime Scene Protection".

September

Visitor, "Trace Evidence and Tour".

October

Ohio Identification Conference Meeting, "Evidence  
Collection".

Youth Department of the 1st Greater New Zion Baptist  
Church, "Forensics".

November

Cleveland Clinic Blood Banking, "Role of Trace  
Evidence".

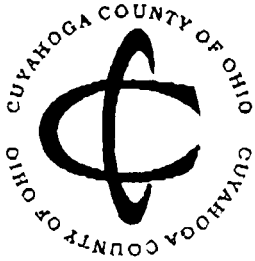
EMS, "Role of Trace Evidence".

Kent State Medical Students, "Role of Trace Evidence".

Westlake High School, Shadow Teacher.

December

Shaker Heights Police Basic School, "Trace Evidence  
and Serology".



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Year 1994

Lectures/Training as invited instructor/guest lecturer:

February

"Blood Flight Characteristics", "PCR/DNA", "Crime Scene Reconstruction". 5 Students - Kent State University.

"DNA" - Case Western Biology Students.

April

"Trace Evidence" - Kent State University.

"Flight Characteristics" - Lorain Community College.

"Trace Evidence" - Cleveland State University.

"Collection of Bloodstain" - Cleveland State University.

"Blood & Crime Scene Investigation" - Shaker Heights Basic School.

May

"DNA" - Cleveland State University.

June

"Conference on Law Enforcement", "Trace Evidence" & "Serology current and future update" - State of Ohio Office of the Attorney General's.

July/August

"DNA" - Channel 5 with Bill Shiel, aired 9/25/94.

September

"DNA" - Live on Channel 8, 9/21/94.

PCR/DNA Laboratory, Samples and Techniques - Shadowing Experience 9/21/94.

Updated on number of samples examined - Cuyahoga County Coroner's Office Pathologist, 9/22/94.



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(continued)

Year 1994

Lectures/Training as invited instructor/guest lecturer:

October

"Trace Evidence" Woodmere Police Department and Fire Department.

"Trace Evidence and DNA" - Institute of Pathology - Lakeside.

November

"Trace Evidence" - The Cleveland Society for Medical Technology.

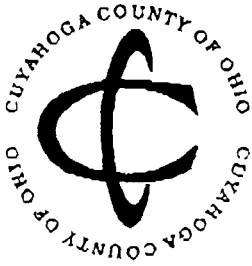
"Trace Evidence, (Serology and DNA)" - Kenston High School.

December

"Training for Forensic Employment" - Elizabeth Lansky.

"Serology and DNA" - Shaker Heights Police Department Basic School.

"Basic School" - Shaker Heights Police Department, 12/8/94.



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Year 1993

Lectures/Training as invited instructor/guest lecturer:

January	Sexual Assault Kits - State-wide conference, Columbus.
March	Sexual Assault Kit - State-wide training, East Cuyahoga County.  Sexual Assault Kit - State-wide training, West Cuyahoga County.
April	Sexual Assault - State-wide training, Zanesville.  Collection/DNA - Shaker Heights Police Department.  "DNA" - Ashtabula County, High School Journalism student.
May	DNA Blood Flight Characteristics. Lorain Community College.  "Serology" Defense Attorneys and State Public Defenders, Cleveland.  Crime Scene Investigation, Geauga County.
June	"Serology" - Histology Society of Ohio.
September	"Serology/DNA" - Cleveland Bar Association.
October	"Collection/DNA" - Ohio Identification Officers Association.  "Samples collected/tests performed" - Cuyahoga County Coroner's Office Pathologists.  "Collection/DNA" - Shaker Heights Basic Police School #2.



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Year 1992

Lectures/Training as invited instructor/guest lecturer:

January

Collection of Rape Kit - University Heights Pediatric Department.

Shadowing Experience, special interest student of Lakewood High, Trace Evidence Department.

February

"Serology/DNA" - Madison High School Student.

"Serology/DNA", "Emergency Medical Squad" and Protection of Scene", Defense Attorneys, Trace Evidence.

Protection of Scene - Emergency Medical Squad.

March

"Serology" - Lorain Community College Basic Police.

Serology, Flight Characteristics of bloodstains. Protection of Crime Scene, DNA, Imprint Analysis. Case Western Reserve University Basic School.

April

Physical Crime Scene, Serology Lecture - Kent State.

Students from Midpark High School Polaris Career.

"DNA/PCR" - Prosecutor's Bar Association.

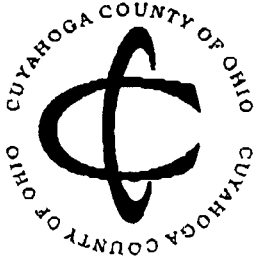
"PCR/DNA" - Association of Criminalistics.

Attended PCR - State-wide training conference, California, Attended a class on Polymerase Chain Reaction, Human Leukocyte Antigen DQ Alpha, DNA typing.

May

Serology and Terminology, Euclid Police Department.

PCR/RFLP, Trace Evidence Personnel and Pathologist.



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(continued)

Year 1992

Lectures/Training as invited instructor/guest lecturer:

July	Forensic Serology and Trace Evidence - University Medical Technicians.  Training in Forensic Serology, (two).
August	Lake County Crime Lab, Linda Erdei.  Rape Kit Acceptance - Ohio Serologist.
October	Cuyahoga County Coroner's Office Staff.  Crime Scene Management - Lorain County.  "Dead Men (and women) Do Tell Tales" - Crime-Solving At The Trace Evidence Lab - Sunday Plain Dealer by Michael Heaton.



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Year 1991

Lectures/Training as invited instructor/guest lecturer:

January

"Bloodstain Analysis and Cuyahoga County Coroner's Office Cases" - Cuyahoga County Coroner's Office Pathologists and Trace Evidence Staff.

"Crime Scene Investigation School" - Shaker Heights Basic Police School.

Shadow Experience, special interest student of Lakewood High School, Trace Evidence Department.

February

Crime Scene Investigation School, Shaker Heights Basic Police School (two).

"Serology" - Lorain County Community College Basic Police School.

"Trace Evidence/Collection/Serology" - Shaker Heights Police Department. Evidence/Collection/Serology".

Shadow Experience, special interest student of Brush High School, Trace Evidence Department.

March

"Collection and Submission of Sexual Assault Kits" - St. Luke's Emergency Room.

"Crime Scene Investigation School" - Shaker Heights Basic Police School.

Special Investigation Course. Case Western Reserve University School of Law.

Techniques in Trace Evidence and Serology - Southwest General Hospital, Med Techs.

Center for Criminal Justice - Case Western Reserve University Basic Police School (two).

April

Protection of Evidence - Cleveland Emergency Medical Squad.

Shadow Experience, special interest student of Hawkens High School, Trace Evidence Department.





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(continued)

Year 1991

Lectures/Training as invited instructor/guest lecturer:

May	<p><b>Shadow Experience</b>, special interest student of Midpark High School, Trace Evidence Department.</p> <p><b>"Collection and Flight Characteristics and Sexual Assaults"</b> - Cuyahoga County Sheriff's Office.</p> <p><b>Shadow Experience</b>, special interest student of Cleveland State University, Trace Evidence and Serology.</p> <p><b>Shadow Experience</b>, special interest student of Shaker Heights High School, Trace Evidence Department.</p>
July	<p>Case Western Reserve University, Basic Police School.</p>
September	<p><b>"Forensic Serology and Trace Evidence"</b>, special interest student of Ohio University.</p> <p><b>Tour and Lecture, "Serology and Collection"</b> - Medina Coroner and Medina County Nurse.</p>
October	<p>Case Western Reserve University, Basic Police School.</p>
November	<p><b>Crime Scene Investigation School</b> - Broadview Heights Police Department.</p> <p><b>Shadowing Experience</b>, special interest student of Berea High School, Trace Evidence Department.</p>
December	<p>Member of the Cuyahoga County Child Protection Coalition/Evidence Committee.</p> <p><b>Shadowing Experience</b>, special interest student of Midpark High School, Trace Evidence Department</p> <p><b>Shadowing Experience</b>, special interest student of North Olmsted High School, Trace Evidence Department</p> <p><b>Shadowing Experience</b>, special interest student of Midpark High School, Trace Evidence Department.</p> <p><b>Shadowing Experience</b>, special interest student of North Olmsted High School, Trace Evidence Department.</p>

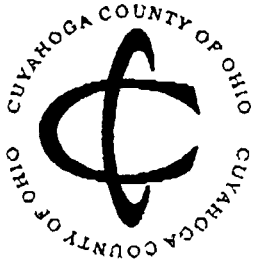


CORONER  
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Year 1990

Lectures/Training as invited instructor/guest lecturer:

February	Tour - Senior Citizens, Serology section.
March	"Serology, DNA, Bloodstain Flight Characteristics", (two) - Basic Police School.
April	"Serology and DNA" - Lorain Community College, MLT Program.
May	"Serology and DNA" - Ohio Identification Officers Association, .
June	Homicide Investigation School.
August	Basic Police School.
October	Basic Police School.  Attended Midwestern Association of Forensic Scientists.
November	"Trace Evidence" - Cleveland Society Medical Technologists,  Marian Technical College Medical Technologists.



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Year 1989

Lectures/Training as invited instructor/guest lecturer:

March	Case Western Reserve University for Criminal Justice, Basic Police School.  <b>Shadowing Experience</b> , special interest student of Fairview High School, Trace Evidence Department.
April	<b>"DNA"</b> - Defense Attorneys.  <b>"Serology"</b> - Juvenile Division.  <b>"DNA"</b> , Prosecutors - Case Western Reserve University.  <b>Shadowing Experience</b> , special interest student of School of Medical Technology (Serology).
June	Case Western Reserve University, Center for Criminal Justice, Basic Police School.  <b>"DNA"</b> - Homicide Unit.
July	<b>"DNA"</b> , Prosecutors, FBI - Case Western Reserve University.  Prosecutors, FBI, Defense Attorneys, Columbus.
August	Metropolitan Blood Bank Students.
September	<b>"Serology"</b> - Defense Attorneys.
November	Case Western Reserve University, Center for Criminal Justice, Basic Police School.  <b>Shadowing Experience</b> , special interest student of Brush High School. Forensic Program.
December	<b>"Forensic Serology"</b> - Cleveland Clinic.



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Year 1988

Lectures/Training as invited instructor/guest lecturer:

Forensic  
Educational:

"Dead Men Do Tell Tales" - Models on Crime Scenes.

March

"Forensic Serology" - University Hospital School of Medical Technology.

"Trace Evidence" - Baldwin Wallace College.

"Collection of Samples in Sexual Assault Cases" - Hillcrest Hospital.

May

"Forensic Serology" - University Hospital School of Medical Technology.

June

"Forensic Serology, Collection of Evidence, Flight Characteristics and Models of Scenes" - Case Western Reserve University, Center for Criminal Justice, Homicide Seminar.

August

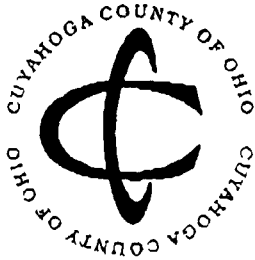
"Bloodstain Analysis and Collection and Preservation - Sexual Assault Cases" - Case Western Reserve University, Center for Criminal Justice, Basic School.

"Serology and Trace Evidence" - Metro General Hospital Medical Technology Students.

December

"Collection, Serology, Flight Characteristics and Bloodstains" - Case Western Reserve University, Center for Criminal Justice, Basic School - (two).

"Trace Evidence" Olmsted Falls Grade School, 6th Grade.



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Year 1987

Lectures/Training as invited instructor/guest  
lecturer:

June

"Bloodstains Collection/Flight Characteristics of  
Bloodstains" - Case Western Reserve University Center  
for Criminal Justice, Homicide Investigation School.

"Bloodstains Collection/Flight Characteristics of  
Bloodstains" - Cleveland Clinic Basic Police School.

August

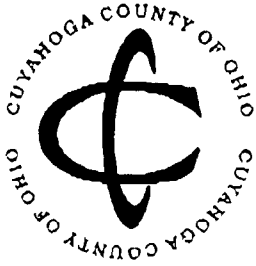
"Collection of Samples for Sexual Assault Cases" -  
Cleveland Metropolitan General Hospital.

October

"Collection of Samples for Sexual Assault Cases" -  
Euclid General Hospital.

November

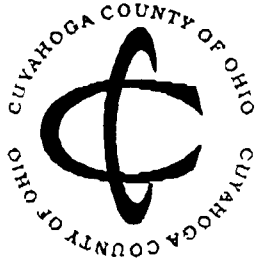
"Blood/Semen/Collection/Preservation" - Case Western  
Reserve University, Center for Criminal Justice, Basic  
Course for Police Officers.



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**Year 1986****Lectures/Training as invited instructor/guest lecturer:**

April	"Interpretation of Bloodstain Patterns" - Center for Criminal Justice, Case Western Reserve University, Basic Police School.
May	"Serology" - Lake Catholic High School Students. "Serology" - Cuyahoga Community College Students.
June	"Serology, Flight Characteristics of Bloodstains" - Center for Criminal Justice, Case Western Reserve University, Homicide Investigation School. "Serology and Trace Evidence" - University Hospital Medical Technologists.
July	"Phast"- Pharmacia, BCI Lake City, SIV-Mansfield Crime System.
August	Workshop on the Phast System for Isoelectric Focusing on Routine Enzymes. "Serology" - Blood Bank Students. "Serology" - Cleveland Metropolitan General Hospital Medical Technologists.
September	"Collection for Sexual Assault Cases" - Cleveland Metropolitan General Hospital Emergency Center.
November	Trace Evidence in Sexual Assault and blood work cases". Cuyahoga Community College, Department of Law Enforcement, Basic Police School.



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Year 1985

Lectures/Training as invited instructor/guest  
lecturer:

April

"Field of Forensic Serology" - Case Western Reserve  
University Center for Criminal Justice, Basic Police  
School.

May

"What is Trace Evidence?" - Boulevard Elementary  
School.

"Field of Forensic Serology" - Shadowing Experience,  
special interest of student of Shaker Heights High  
School.

June

"Field of Forensic Serology" - Shadowing Experience,  
special interest of student of Shaker Heights High  
School.

"Field of Forensic Serology" - Case Western Reserve  
University Center for Criminal Justice, Homicide  
Investigative School.

"What is Forensic Serology" - University Hospital  
Medical Technologists.

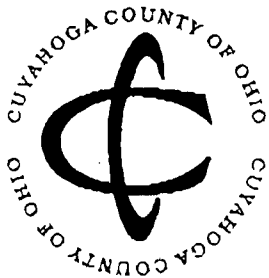
"Field of Forensic Serology" - Dental Students,  
Cleveland Institute of Dental Assistants.

October

"Field of Forensic Serology" - Case Western Reserve  
University Center for Criminal Justice, Basic Police  
School.

November

"Field of Forensic Serology" - Case Western Reserve  
University Center for Criminal Justice, Basic Police  
School.



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Year 1984

Lectures/Training as invited instructor/guest  
lecturer:

June

"Flight Characteristics of Bloodstains" - Case Western  
Reserve University Center for Criminal Justice,  
Homicide Investigation Seminar.

"What is Trace Evidence?" - University Hospital  
Medical Technologists.

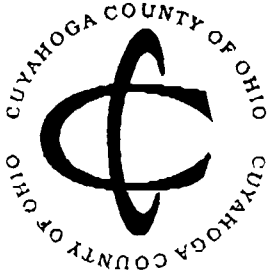
August

"What is Trace Evidence?" -Cuyahoga County Medical  
Technologists.

September

"Characteristics of Bloodstains" - Case Western  
Reserve University Law Students.





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Year 1983

Lectures/Training as invited instructor/guest lecturer:

April

Shadowing Experience, special interest student of -  
Collinwood High School, Trace Evidence Department.

Center for Criminal Justice - Case Western Reserve  
University, 70th Basic Police School.

June

Center for Criminal Justice - Case Western Reserve  
University, Homicide Investigation Seminar.

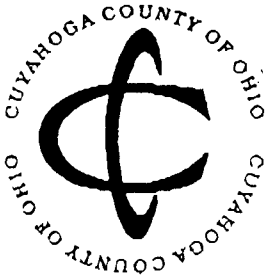
University Hospital Medical Technologists.

August

Cuyahoga County Hospital Medical Technologists.

November

Center for Criminal Justice - Case Western Reserve  
University, 71st Basic Police School.



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Year 1982

Lectures/Training as invited instructor/guest lecturer:

February

"Characteristics of Blood" - Blood Banking and Medical Technologists.

April

Strongsville and North Olmsted Students from Career Development.

CCJ-CWRU, 68th Basic Police School.

June

Homicide Investigation Seminar.

"Ohio Peace Officer Basic Training Program"- State of Ohio Peace Officer Training Council.

July

St. Luke's Hospital Medical Technologists.

November

CCJ-CWRU, 69th Basic Police School.

"Bloodstains" - Public Defenders' visit to the Coroner's Office.

"Bloodstains"- Assistant County Prosecutors' visit to the Coroner's Office.