



# Debra A. Epstein

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Scottsdale, Arizona 85260  
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[www.brightlineforensic.com](http://www.brightlineforensic.com)

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## ***Experience:***

Oct 2013 to  
current

### **Bright-Line Forensic Sciences, LLC President**

*Forensic Science Consulting*

- Troubleshooting
- Corrective Action Assessment
- Training
  - Forensic Biology Screening
  - DNA Analysis
  - DNA Mixture Interpretation and Statistical Applications
  - Paternity Trio Statistics
  - Assessments and Audits
  - Forensic Biology and DNA Case File Review
  - Laboratory Process Improvements

Aug 2012 to  
Oct 2013

### **Figarelli Forensics, LLC Owner**

*Forensic Science Consulting*

- Troubleshooting
- Corrective Action Assessment
- Training
  - Forensic Biology Screening
  - DNA Analysis
  - DNA Mixture Interpretation and Statistical Applications
  - Paternity Trio Statistics
  - Assessments and Audits
  - Forensic Biology and DNA Case File Review
  - Laboratory Process Improvements

April 2005 to  
Aug 2012

### **National Forensic Science Technology Center DNA Technical Manager**

- Function as a DNA subject matter expert and act as project manager for DNA related projects
- Oversee, design, and deliver customized DNA training to user agencies to include course development, on-line learning tools, and lectures. DNA Analyst training provided to over 200 DNA analysts in the United States.



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### Agencies included:

- Georgia Bureau of Investigations
- Louisiana State Patrol
- Washington State Patrol
- Arizona Department of Public Safety
- Wisconsin State Patrol
- Michigan State Police
- Nebraska State Police
- U.S. Army Crime Laboratory

### DNA Mixture Interpretation and Statistical Evaluation of Data provided to:

- DC Metro Police Department
  - AAFS 2012 meeting workshop
  - SAFS 2011 meeting workshop
  - SWAFS 2011 meeting workshop
  - Mid American Forensic conference 2011 workshop
- Oversee DNA related evaluations of methods and technologies that can be used by U.S. public crime laboratories and Federal agencies
  - Conduct the final reviews of all NFSTC DNA audit documents for the External DNA Audit program and liaise with audit teams and the Federal Bureau of Investigation National DNA Index System to ensure compliance with the Quality Assurance Standards
  - Provide assistance to U.S. public crime laboratories regarding DNA technology, training, and quality assurance issues
  - Assist in grant writing and grant management

Sept. 1998 to  
April 2005

### **City of Phoenix**

#### **Police Department Crime Laboratory**

*Criminalist Supervisor/DNA Technical Manager/Assistant Laboratory Director (acting)*

- Technical manager of the Forensic Biology section
- Acting Assistant Laboratory Director over Controlled Substances, Toxicology, Firearms, and Forensic Biology sections
- Ensure ASCLD/LAB accreditation standards were maintained by the laboratory



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- Ensure the FBI Quality Assurance Standards were maintained by the DNA section
- Oversee and provide DNA analyst training to new employees
- Oversee the technical operation of the laboratory
- Evaluate and approve all validation studies and methods
- Write grant proposals and manage DNA grants
- Manage Forensic Biology budget
- Train Phoenix Police law enforcement personnel on biological evidence collection and DNA analysis
- Upon resignation, was the contract DNA technical leader from April 2005-February 2006
- Testify in court proceedings
- Assist in writing non-DNA related grants

Oct. 1989  
to Sept. 1998

## **Arizona Department of Public Safety Central Crime Laboratory**

*Toxicology section analyst-10/89 to 10/91*

- Perform toxicology analyses
- Issue reports
- Present findings in court

*DNA analyst- 10/91 to 7/97*

- Perform DNA analyses
- Issue reports
- Present findings in court
- Assist in the validation of new methods
- Oversee the implementation of the Arizona convicted offender database program

*\*Supervising Criminalist/DNA Technical Manager of statewide DNA Program  
7/97-9/98*

- Technical manager of the Forensic Biology statewide program (three laboratories)
- Supervisor of the Central laboratory Forensic Biology section
- Ensure ASCLD/LAB accreditation standards were maintained by the laboratory



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- Ensure the FBI Quality Assurance Standards were maintained by the DNA section
- Oversee and provide DNA analyst training to new employees
- Oversee the technical operation of the laboratory
- Evaluate and approve all validation studies and methods
- Apply for and manage DNA grants

August 1987 to  
June 1989

**U. S. Department of Justice  
Drug Enforcement Administration  
Southwest Laboratory**

*Forensic Chemist*

- Perform controlled substances analyses
- Issue reports
- Present findings in court

### ***Education:***

**Northern Arizona University**, Flagstaff, Arizona

*Bachelor of Science, Chemistry*

1987

**University of Central Florida, Orlando, Florida**

*Master's of Science in Industrial Chemistry, Forensic Biochemistry-DNA  
Option*

*Chemistry Department*

*All coursework completed, thesis incomplete*

### ***Coursework Required for the FBI Quality Assurance Standards for a DNA Technical Leader/Manager:***

Northern Arizona University

CHM413 – Biochemistry

University of Virginia

CJ 534/535-Forensic Applications of DNA/Laboratory Applications of DNA



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Arizona State University  
Bio340 – General Genetics  
Bio443 – Molecular Genetics

University of Central Florida  
CHS6536 – Forensic Analysis of DNA Data

Illinois Institute of Technology  
Chem513 – Statistics/Analytical Chemistry

### ***DNA Mixture Interpretation and Statistical Evaluation of Data Training provided to:***

- State of Delaware Office of Medical Examiner  
Interpretation and Statistical Approaches for Forensic DNA Analysis  
November 25-27, 2013
- Mesa Police Department  
Forensic Services-Biology Forensic DNA Mixture and Paternity Trio  
Interpretation and Statistical Applications  
April 10, 18, 19, 2013  
Mesa, Arizona

### ***Certificates:***

- American Society of Crime Laboratory Directors, Inc. Certificate for meeting the requirements for DNA Technical Leader/Manager as Established by the DNA Advisory Board Standard 5.2.1.1 – December 1999
- Specialist Instructor on Physical Evidence Processing Procedures – The Arizona Peace Officer Standards and Training Board, in compliance with Arizona Administrative code R13-4-114 – April 2003

### ***Professional Memberships:***

- American Academy of Forensic Sciences



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- American Society of Crime Laboratory Directors (co-chaired the Mentoring Subcommittee)
- Scientific Working Group on DNA Analysis Methods -SWGDM (regular member from 2003 - 2005) served on the Quality Assurance Subcommittee and the Y-STR Subcommittee)
- National Institute of Justice Technical Working Group-DNA (1999 - 2010)
- Principles of Forensic DNA for Officers of the Court- Feb 2007 (former panel member)
- Arizona Forensic Services Advisory Committee (1/24/2008 through 6/1/2010)

### ***Auditing Experience and Certifications***

- Crime Laboratory Auditing by the National Forensic Science Technology Center – May 2000
- FBI Certified DNA Auditor (October 2001; March 2004; December 2004, April 2009)
- Laboratory Auditor Training as ASCLD/LAB Legacy Inspector – October 2001
- ISO/IEC 17025:1999 Internal Audit Course December 2004 (Gladhill Associates International)
- Advanced Grant Progress Assessment Training for Lead Assessors – July 2005 (National Institute of Justice and the National Forensic Science Center)
- ISO/IEC 17025:2005 Training – January 2007 (ASCLD/LAB)



**Bright-Line**

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- Assessor Training for Forensic Accreditation  
Sponsored by the FBI and taught by ASCLD/LAB International and Forensic Quality Services – January 2007
  - Qualified ANSI-ASQ National Accreditation Board/FQS ISO Technical and Lead Assessor – current
  - Qualified Dubai Accreditation Department Technical Assessor - current

### ***Grant Management***

- Experience writing grant proposals and managing grants, to include research, DNA, Byrne, and Coverdell while employed at the AZ Department of Public Safety, Phoenix Police Department and National Forensic Science Technology Center.
- Experience reviewing grant proposals and providing feedback as a National Institute of Justice grant reviewer.
- Experience with assisting organization in writing grant proposals.

### ***Projects, Committees, and Presentations***

1. *Forensic Laboratory Accreditation & DNA Validation Considerations*  
Japanese Journal of Forensic Science and Technology (JAFST) 20th Annual Scientific Meeting, Tokyo, Japan  
November 14, 2014  
Presenter
2. *Forensic Laboratory Accreditation & DNA Validation Considerations*  
Life Technologies HID Training for Japan Crime Laboratories  
Fukuoka, Japan – November 10, 2014  
Osaka, Japan – November 11, 2014  
Tokyo, Japan – November 12, 2014  
Presenter



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3. Principles of Forensic DNA for Officers of the Court <http://projects.nfstc.org/otc/>  
Participated as DNA subject matter expert, wrote and edited sections of the training program
4. Collecting DNA Evidence at Property Crime Scenes [www.dna.gov](http://www.dna.gov)  
Edited sections of the training program
5. DNA Analyst Training Program [www.dna.gov](http://www.dna.gov)  
Participated as DNA subject matter expert, wrote and edited sections of the training program
6. Forensic DNA Education for Law Enforcement Decision Makers  
<http://projects.nfstc.org/fse/>  
Project manager and participated as DNA subject matter expert, wrote and edited sections of the training program
7. Sexual Assault Response Team Conference 2011 committee member and speaker  
<http://www.sartconference.com/DisplayArticle.php?article=DebbieFigarelli>
8. DNA Mixture Interpretation Workshop <http://projects.nfstc.org/dnamix/2011>  
Project Manger and moderator
9. Forensic Science for the 21st Century: The National Academy of Science Report and Beyond 2009 Conference - Center for the Study of Law, Science, & Technology, Sandra Day O'Connor College of Law, Arizona State University  
<http://lst.law.asu.edu/FS09/> - Speaker
10. ASCLD Accreditation Mentoring Committee Co-chair (2004-2005)
11. Actual Innocence Establishing Innocence or Guilt Forensics, False Confessions and Eye-Witness Identification – 2008  
[https://register.cailaw.org/Brochures\\_2008/4thInnocenseB.pdf](https://register.cailaw.org/Brochures_2008/4thInnocenseB.pdf)  
Presenter
12. Forensic Chemistry Symposium 2011  
<http://www.chem.fsu.edu/chemlab/fame2011/forensic.html>  
Presenter





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13. Sexual Violence Research Workshop, Marriott Crystal City, Arlington, VA  
June 23 – 24, 2008 <http://www.nij.gov/topics/crime/violence-against-women/workshops/sexual-violence-research.htm>  
Committee member

14. 2009 NIJ Conference [http://www.nij.gov/events/nij\\_conference/2009/agenda.htm#](http://www.nij.gov/events/nij_conference/2009/agenda.htm#)  
Presenter

15. NIJ Grant Proposal reviewer

### *Forensic Biology and DNA Training*

- Aug/Sept 2015**                      22<sup>nd</sup> International Symposium on the Forensic Sciences  
Australian and New Zealand Forensic Science Society (ANZFSS)  
Adelaide, South Australia (4 days)
- August 2015**                      Next generation sequencing: The future of forensic biology  
Dr. Dennis McNevin with Dr. Runa Daniel  
Sponsored by US Army International Technology Center – Pacific  
(ITC-PAC)  
22<sup>nd</sup> International Symposium on the Forensic Sciences  
Australian and New Zealand Forensic Science Society (ANZFSS)  
Adelaide, South Australia (4 hours)
- Sept/Oct 2015**                      The Twenty-Fifth International Symposium on Human Identification  
The Promega Corporation  
Phoenix, AZ (4 days)
- May 2014**                              American Society of Crime Laboratory Directors 41<sup>st</sup> Annual  
Workshop & Symposium  
Scottsdale, AZ (4 days)
- February 2012**                      American Academy of Forensic Science  
Atlanta, Georgia (3 days)



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<b>October 2011</b>	The Twenty-Second International Symposium on Human Identification The Promega Corporation National Harbor, Maryland (3 days)
<b>September 2011</b>	American Society of Crime Laboratory Directors 39 <sup>th</sup> Annual Workshop & Symposium Denver, Colorado (5 days)
<b>February 2011</b>	American Academy of Forensic Science Chicago, Illinois (5 days)
<b>December 2010</b>	Forensics @ NIST 2010 Office of Law Enforcement Standards (OLEs) at the National Institute of Standards and Technology (NIST) Gaithersburg, Maryland (3 days)
<b>November 2010</b>	The Sixteenth Annual CODIS Conference Salt Lake City, Utah (1 day)
<b>October 2010</b>	The Twenty-first International Symposium on Human Identification The Promega Corporation Technical Leaders Workshop: San Antonio, Texas (3 days)
<b>October 2010</b>	NIJ Grantees Summit San Diego, CA (3 days)
<b>September 2010</b>	American Society of Crime Laboratory Directors 38 <sup>th</sup> Annual Workshop & Symposium Baltimore, Maryland (5 days)
<b>June 2010</b>	The Eleventh Annual DNA Grantees Meeting Washington D.C. (5 days)
<b>May 2010</b>	Eliminating the Rape Kit Backlog: A Roundtable to Explore A Victim-Centered Approach Washington, DC (2 days)



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<b>February 2010</b>	American Academy of Forensic Science Seattle, Washington (5 days)
<b>November 2009</b>	The Fifteenth Annual CODIS Conference Reston, Virginia (1 day)
<b>October 2009</b>	The Twentieth International Symposium on Human Identification Technical Leaders Workshop The Promega Corporation Las Vegas, Nevada (3 days)
<b>June 2009</b>	FSS-i <sup>3</sup> ™ Expert Systems Software Training The Promega Corporation Largo, Florida (4 days)
<b>June 2009</b>	The Tenth Annual DNA Grantees Meeting Washington D.C. (5 days)
<b>April 2009</b>	DNA Auditor Refresher Training The FBI Laboratory Indian Rocks Beach, Florida (1 day)
<b>March 2009</b>	The FBI Partial Match/Familial Searching Conference Crystal City, Virginia (3 days)
<b>February 2009</b>	American Academy of Forensic Science Denver, Colorado (5 days)
<b>November 2008</b>	The Fourteenth Annual CODIS Conference Crystal City, Virginia (1 day)
<b>October 2008</b>	The Nineteenth International Symposium on Human Identification/ Technical Leaders Workshop The Promega Corporation Hollywood, California (3 days)



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|-----------------------|---|
| <b>October 2008</b>   | NIJ Grantees Summit<br>Clearwater, Florida (3 days)   |
| <b>June 2008</b>      | Sexual Violence Research Workshop<br>Washington D.C. (1 day)  |
| <b>September 2007</b> | The Eighteenth International Symposium on Human Identification<br>The Promega Corporation<br>Hollywood, California (3 days)   |
| <b>February 2007</b>  | American Academy of Forensic Science<br>San Antonio, TX (5 days)  |
| <b>January 2007</b>   | Assessor Training for Forensic Accreditation<br>Sponsored by the FBI and taught by ASCLD/LAB International and<br>Forensic Quality Services<br>Clearwater, Florida (3 days) |
| <b>January 2007</b>   | ISO/IEC 17025:2005<br>Assessor Training for Forensic Accreditation<br>Sponsored by the FBI and taught by ASCLD/LAB International<br>Clearwater, Florida (1 day)             |
| <b>October 2006</b>   | The Seventieth International Symposium on Human Identification<br>The Promega Corporation<br>Nashville, Tennessee (1 day)   |
| <b>June 2006</b>      | The Seventh Annual DNA Grantees Meeting<br>Washington D.C. (5 days)   |
| <b>October 2005</b>   | American Society of Crime Laboratory Directors 33 <sup>rd</sup> Annual<br>Workshop & Symposium<br>Phoenix, Arizona (5 days)   |



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| <b>September 2005</b> | The Sixteenth International Symposium on Human Identification and SWGDAM Meeting<br>The Promega Corporation<br>Gaylord, Texas (3 days)  |
| <b>July 2005</b>      | Advanced Grant Progress Assessment Training for Lead Assessors<br>National Institute of Justice<br>Washington D.C. (1 day)  |
| <b>June 2005</b>      | The Sixth Annual DNA Grantees Meeting<br>Washington D.C. (5 days)   |
| <b>February 2005</b>  | The FSS <sup>®</sup> DNA Mixtures Course<br>Phoenix, Arizona (4 days)   |
| <b>January 2005</b>   | The Scientific Working Group on DNA Analysis Methods<br>Spring Meeting<br>Quantico, Virginia (3 days)   |
| <b>December 2004</b>  | DNA Auditor Refresher Training<br>The FBI Laboratory<br>Tampa, Florida (1 day)  |
| <b>December 2004</b>  | ISO/IEC 17025:1999 Internal Audit Course<br>Gladhill Associates International<br>Phoenix, Arizona (2 days)  |
| <b>November 2004</b>  | American Society of Crime Laboratory Directors 32 <sup>nd</sup> Annual<br>Workshop & Symposium<br>San Diego, California (5 days)  |
| <b>October 2004</b>   | The Fifteenth International Symposium on Human Identification and<br>Low Copy Number DNA Analysis and Sample Screening Workshop<br>The Promega Corporation<br>Phoenix, Arizona (3 days) |
| <b>August 2004</b>    | Bloodborne Pathogens Safety Training<br>TEC Compliance Solutions<br>Phoenix, Arizona (4 day)  |



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| <b>July 2004</b>      | The Scientific Working Group on DNA Analysis Methods<br>Summer Meeting<br>Quantico, Virginia (5 days)                  |
| <b>June 2004</b>      | The Fifth Annual DNA Grantees Meeting<br>Washington D.C. (5 days)  |
| <b>March 2004</b>     | DNA Auditor Refresher Training<br>The FBI Laboratory<br>Phoenix, Arizona (2 days)                                      |
| <b>January 2004</b>   | The Scientific Working Group on DNA Analysis Methods<br>Spring Meeting<br>Quantico, Virginia (5 days)                  |
| <b>September 2003</b> | The Fourteenth International Symposium on Human Identification<br>The Promega Corporation<br>Phoenix, Arizona (3 days) |
| <b>July 2003</b>      | The Scientific Working Group on DNA Analysis Methods<br>Summer Meeting<br>Quantico, Virginia (5 days)                  |
| <b>May 2003</b>       | Forensic DNA Population Genetics & Statistics Workshop<br>Dr. George Carmody<br>Phoenix, Arizona (3 days)              |
| <b>January 2003</b>   | The Scientific Working Group on DNA Analysis Methods<br>Spring Meeting<br>Quantico, Virginia (5 days)                  |
| <b>October 2002</b>   | The America Society of Crime Laboratory Directors Annual Meeting<br>St. Petersburg, Florida (5 days)                   |
| <b>October 2002</b>   | The Thirteenth International Symposium on Human Identification<br>The Promega Corporation<br>Phoenix, Arizona (3 days) |



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- December 2001** The America Society of Crime Laboratory Directors Annual Meeting, "2001-A Forensic Odyssey"  
Phoenix, Arizona (5 days)
- October 2001** DNA Auditor Training  
American Society of Crime Laboratory Directors/Laboratory Accreditation Board and the FBI Laboratory  
Salt Lake City, Utah (2 days)
- October 2001** Laboratory Audit Training  
American Society of Crime Laboratory Directors/Laboratory Accreditation Board  
Salt Lake City, Utah (3 days)
- February 2001** The Proceedings of the 53<sup>rd</sup> Annual Meeting of the American Academy of Forensic Sciences, 2001  
Seattle, Washington (5 days)
- June 2000** Interpretation of DNA Evidence in Casework  
Royal Canadian Mounted Police/Carleton University  
Ottawa, Canada (4 days)
- May 2000** Crime Laboratory Auditing  
National Forensic Science Technology Center  
Phoenix, Arizona (3 days)
- May 2000** Forensic DNA Statistics Seminar: Practical Applications  
Dr. John Buckleton  
Phoenix, Arizona (2 days)
- May 2000** California Association of Criminalists & the Forensic Science Society Third Joint Meeting  
Napa, California (5 days)
- October 1999** The Tenth International Symposium on Human Identification  
The Promega Corporation  
Orlando, Florida (3 days)



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| <b>September 29, 1999</b> | Mitochondrial DNA Sequence Analysis in Forensic Casework: Methods & Issues Workshop 1999<br>The Promega Corporation<br>Orlando, Florida (1 day) |
| <b>July 1999</b>          | Identification and Pre-Screening of Human Hairs for DNA Analysis<br>Micro Forensics, Ltd.<br>Phoenix, Arizona (5 days)                          |
| <b>May 1999</b>           | Forensic Mitochondrial DNA Analysis<br>The FBI Laboratory<br>Quantico, Virginia (2 weeks)   |
| <b>February 1999</b>      | The Proceedings of the 51 <sup>st</sup> Annual Meeting of the American Academy of Forensic Sciences<br>Orlando, Florida (5 days)                |
| <b>October 1998</b>       | The Ninth International Symposium on Human Identification 1998<br>The Promega Corporation<br>Orlando, Florida (3 days)                          |
| <b>October 1998</b>       | TWGDAM Meeting<br>Orlando, Florida (1 day)  |
| <b>August 1998</b>        | Advanced Ampf $\ell$ STR <sup>TM</sup> & ABI Prism <sup>TM</sup> 310 Genetic Analyzer Course<br>Phoenix, Arizona (4 days)                       |
| <b>January 1998</b>       | TWDGAM Meeting<br>Quantico, Virginia (2 days)   |
| <b>December 1997</b>      | DNA Databanks and Repositories<br>Second Joint Conference<br>Armed Forces Institute of Pathology<br>Chicago, Illinois (4 days)                  |
| <b>September 1997</b>     | The Eighth International Symposium on Human Identification<br>The Promega Corporation   |





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Scottsdale, Arizona (4 days)

### **October 1996**

Statistics and Population Genetics for Forensic Science  
Dr. Bruce Weir  
Phoenix, Arizona (3 days)

### **September 1996**

The Seventh International Symposium on Human Identification  
The Promega Corporation  
Scottsdale, Arizona (4 days)

### **January 1996**

Statistics for Forensic Scientists Workshop  
National Forensic Science Technology Center  
St. Petersburg, Florida (3 days)

### **October 1995**

The Sixth International Symposium on Human Identification  
The Promega Corporation  
Scottsdale, Arizona (4 days)

### **March 1995**

Forensic Serological Screening Examinations Qualification  
Arizona Department of Public Safety (5 days)

### **February 1995**

The Proceedings of the 47th Annual Meeting of the American  
Academy of Forensic Sciences  
Seattle, Washington (5 days)

### **October 1994**

California Association of Criminalists & the Forensic Science  
Society Joint Meeting  
Pasadena, California (5 days)

### **October 1994**

The Fifth International Symposium on Human Identification  
The Promega Corporation  
Scottsdale, Arizona (3 days)

### **January 1994**

Forensic Applications of DNA Typing Methods  
The FBI Laboratory  
Quantico, Virginia (4 weeks)

### **September 1993**

The Fourth International Symposium on Human Identification  
The Promega Corporation



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Scottsdale, Arizona (3 days)

**August 1993 to  
December 1993**

Molecular Genetics  
Arizona State University  
Tempe, Arizona

**October 1993**

Southwestern Association of Forensic Scientists Conference  
Statistics for the Non-Statistician - Workshop  
Flagstaff, Arizona (3 days)

**March 1993**

The Second International Conference on Forensic Statistics  
ASU Law Department  
Tempe, Arizona (4 days)

**November 1992**

Serology Training  
Arizona Department of Public Safety  
Flagstaff, Arizona (5 days)

**March 1992**

The Third International Symposium on Human Identification 1992  
The Promega Corporation  
Scottsdale, Arizona (4 days)

**January 1992 to  
May 1992**

Genetics  
Arizona State University, Tempe, Arizona

## *Toxicology Training*

**October 1991**

High Performance Liquid Chromatography  
Hewlett Packard Corporation  
Phoenix, Arizona (8 hours)

**December 1990**

Tests for BAC in Highway Safety Programs  
Indiana State University  
Bloomington, Indiana (5 days)

**November 1990**

Retrograde Extrapolation of Breath/ Blood Alcohol Test Results  
Arizona Department of Public Safety,  
Phoenix, Arizona (40 hours)



[www.brightlineforensic.com](http://www.brightlineforensic.com)

# Debra A. Epstein

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- |                   |   |
|-------------------|---|
| <b>June 1990</b>  | Drug Evaluation and Classification Training<br>U.S. Department of Transportation, Transportation Safety Institute<br>Phoenix, Arizona (2 weeks) |
| <b>March 1990</b> | Forensic Blood Alcohol Training<br>Arizona Department of Public Safety  |

## *Controlled Substances Training*

- |                     |  |
|---------------------|--|
| <b>July 1989</b>    | Applied Molecular Spectroscopy<br>Arizona State University<br>Tempe, Arizona (5 days)              |
| <b>January 1988</b> | Forensic Chemist Basic Training<br>Drug Enforcement Administration<br>Quantico, Virginia (6 weeks) |

## *Supervisory and Management Training*

- |                     |   |
|---------------------|---|
| <b>May 2010</b>     | Diversity – The Value of Mutual Respect; What Everyone Needs to Know about Workplace Violence; What Everyone Needs to Know about Discriminatory Harassment<br>National Forensic Science Technology Center |
| <b>May 2006</b>     | Tools for Coaching/Discipline<br>City of Phoenix Personnel Department, Employee Development   |
| <b>June 2002</b>    | Conflict Management for Supervisors<br>City of Phoenix Personnel Department, Employee Development   |
| <b>June 2002</b>    | Workplace Violence<br>Training Online™  |
| <b>October 2001</b> | Enlightened Leadership,<br>City of Phoenix Personnel Department, Employee Development   |
| <b>March 2000</b>   | FMLA: Managers and Supervisors<br>City of Phoenix Personnel Department, Employee Development  |



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- 
- |                      |   |
|----------------------|---|
| <b>March 2000</b>    | Tools for Coaching/Discipline<br>City of Phoenix Personnel Department, Employee Development   |
| <b>December 1998</b> | Performance Management Training<br>City of Phoenix Personnel Department, Employee Development |
| <b>March 1998</b>    | Criticism and Discipline Skills for Managers™<br>CareerTrack                                  |
| <b>May 1997</b>      | Excelling as a First-Time Supervisor™<br>CareerTrack  |
| <b>August 1995</b>   | How to Stay Positive and Productive in Turbulent, Fast Changing<br>Times™<br>CareerTrack      |

## *Software Training*

- |                      |  |
|----------------------|--|
| <b>February 2007</b> | ACJIS Network Terminal Operator Certification<br>Arizona Department of Public Safety |
| <b>February 2005</b> | ACJIS Network Terminal Operator Certification<br>Arizona Department of Public Safety |
| <b>March 2003</b>    | ACJIS Network Terminal Operator Certification<br>Arizona Department of Public Safety |
| <b>March 2000</b>    | Crystal Reports 7.0 Introduction<br>Productivity Point International®                |
| <b>January 1999</b>  | Access 97 Relational Database Training<br>Training á la Carte                        |
| <b>January 1999</b>  | Access 97 Introductions: Table Design/Data Entry<br>Training á la Carte              |



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### *Safety Training*

- |                      |   |
|----------------------|---|
| <b>August 2004</b>   | Dealing Bloodborne Pathogen Training<br>ETC Compliance Solutions  |
| <b>December 2002</b> | Dealing Bloodborne Pathogen Training<br>Phoenix Police Department   |
| <b>March 1994</b>    | Tactical Drive Training<br>Arizona Department of Public Safety  |
| <b>December 1992</b> | Dealing with Bloodborne Pathogens Per OSHA 1910.1030<br>Arizona State Fire Training, Office of the State Fire Marshal |
| <b>February 1992</b> | Radiation Safety Short Course   |

### *Abstracts/Papers/Publications*

The Proceedings of the 47th Annual Meeting of the American Academy of Forensic Sciences, 1995

(co-author)

**“Examination of a Computer Generated Four Probe Match in the Arizona Native American Database”**

The Proceedings of the 47th Annual Meeting of the American Academy of Forensic Sciences, 1995 (co-author)

**“A Modification of the FBI Body Fluid Stain Extraction for Tissue Samples”**

The Second International Symposium on the Forensic Aspects of DNA Analysis- (co-author)

**“A Preliminary Report on Arizona American Indian Population Data for Five VNTR Loci”**

The Proceedings of the 48th Annual Meeting of the American Academy of Forensic Sciences, 1995 (co-author)

**“Validation of a Chemiluminescence Detection System for RFLP DNA Analysis”**



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The following evaluations can be found at: <http://www.nfstc.org/forensic-technology/technology-evaluations/biology-dna/>

- **Assessment of Commercially Available DNA Quantitation Standards (AAFS 2011, NIJ 2011)**
- **The Benefit of Using the QIAGEN MinElute® PCR Purification Kit for Post PCR Cleanup on Low Level DNA Samples (AAFS 2009)**
- **The Evaluation of Eight Commercially Available STR Kits (AAFS 2009)**
- **Comparison Study of Disinfectants for Decontamination**
- **Assessment of Commercially Available DNA Quantitation Standards**
- **Applied Biosystems' AmpFℓSTR® Identifiler® Plus Amplification Kit**
- **BioTx Innovac® II Vacuum Device**
- **Promega PowerPlex® 16 HS Amplification Kit**
- **QIAGEN QIAcube™ Robotic Workstation**
- **The Benefit of Using the QIAGEN MinElute® PCR Purification Kit for Post-PCR Cleanup on Low-Level DNA Samples**
- **Network Biosystems Genebench FX™-100**
- **The Evaluation of Eight Commercially Available STR Kits**

### **Awards:**

**1994** Arizona Department of Public Safety, Criminal Justice Bureau Scientific Analysis Special Recognition "**Award for Scientific Excellence**"