

ASCLD/LAB-International

STATEMENT OF QUALIFICATIONS

Name	Michelle L. Collins (Gaines)	Date	April 4, 2011
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Laboratory	State of Alaska Scientific Crime Detection Laboratory
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Job Title	Forensic Scientist IV DNA/Biological Screening Unit Supervisor AK State CODIS Administrator
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Indicate all disciplines in which you do casework:

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|---|--|
| <input type="checkbox"/> Controlled Substances | <input type="checkbox"/> Toxicology |
| <input type="checkbox"/> Firearms/Toolmarks | <input checked="" type="checkbox"/> Biology |
| <input type="checkbox"/> Trace Evidence | <input type="checkbox"/> Questioned Documents |
| <input type="checkbox"/> Latent Prints | <input type="checkbox"/> Crime Scene |
| <input type="checkbox"/> Digital Evidence | |

List all sub-disciplines in which you do casework:

Forensic DNA Analysis

Education: List all higher academic institutions attended (list high school only if no college degree has been attained)

Institution	Dates Attended	Major	Degree Completed
University of Alabama at Birmingham	1994-1996	Forensic Science	M.S.F.S.
Clarkson University	1990-1994	Chemistry	B.S.

Other Training: List continuing education, workshops, in-service and other formal training received.

March 2011	Microscopy of Sperm, instructed by Kristin Denning, held at the Alaska Scientific Crime Detection Laboratory in Anchorage, AK (5 hours)
September 2010	38 th Annual Crime Laboratory Development Symposium, various instructors, held at the Hyatt Regency in Cincinnati, OH (22 hours)
November 2009	ASCLD/LAB International Preparation Course, instructed by Anja Einseln, held at the Sonoma Valley Inn in Sonoma, CA (15.5 hours)
August 2008	GeneMapper® ID-X v1.0 Software Training, instructed by April Orbison, held at the Scientific Crime Detection Laboratory in Anchorage, AK (15 hours)
July 2008	Expert Witness Testimony Techniques, instructed by Ron Smith, held at the Alaska Scientific Crime Detection Laboratory in Anchorage, AK (16 hours)
June 2008	Workshop for Laboratories Embarking on Validation of an Expert System, held at the Holiday Inn in Indian Rocks Beach, FL (11 hours)

December 2007 Valuing Diversity, instructed by Erin Shepherd-Ham, held at the Alaska Division of Personnel training facility in Anchorage, AK (6.5 hours)

December 2007 Performance Appraisal: The Basics, instructed by Kimberly Gialopsos, held at the Alaska Division of Personnel training facility in Anchorage, AK (7.5 hours)

October 2007 Academy for Supervisors, instructed by Timothy Parker, held at the Alaska Division of Personnel training facility in Anchorage, AK (37.5 hours)

September 2007 Performance Coaching, instructed by Timothy Parker, Workshop at the Alaska Division of Personnel training facility in Anchorage, AK (7.5 hours)

February 2006 Advanced Topics in STR DNA Analysis, instructed by John M. Butler, PhD and Bruce R. McCord, PhD, Workshop at the Annual AAFS Meeting held in Seattle, WA (7.25 hours)

October 2005 CODIS v5.7.2 Training, instructed by Meghan Carlin and Inez Kendall (SAIC), held at the SAIC facility in McLean, VA (36 hours)

September 2005 DNA Auditor Training, instructed by Richard A. Guerrieri and Heather Seubert (FBI), held at the Wingate Inn in Stafford, VA (14 hours)

August 2005 Statistical Analysis of Forensic DNA Evidence, instructed by George Carmody and Ray Wickenheiser, held at the State of Alaska Scientific Crime Detection Laboratory in Anchorage, AK (30 hours)

August 2004 Death Investigation Seminar, sponsored by and held at the State of Alaska Medical Examiner's Office in Anchorage, AK (5 hours)

March 2004 Quantitative PCR Seminar, In-house training by Stratagene, Scientific Crime Detection Laboratory in Anchorage, AK (4 hours)

December 2003 Quantitative Methods Using RT-PCR, On-line seminar by Stratagene, Scientific Crime Detection Laboratory in Anchorage, AK (1.5 hours)

December 2003 CODIS Talk: NDIS DNA Data Acceptance Standards, instructed by Chris Beheim at the Scientific Crime Detection Laboratory in Anchorage, AK (1.5 hours)

February 2002 Forensic Photography, instructed by Robert Carruthers, Workshop at the Annual AAFS Meeting held in Atlanta, GA

January 2001 Effective Courtroom Communication Skills, instructed by Raymond J. Davis and Louis A. Maucieri, held at the Louisiana State Police Training Facility (3 days)

September 2000 Forensic Biological Microscopy, instructed by Edwin Jones, held at the North Louisiana Criminalistics Laboratory (1 week)

Aug-Dec 1999 Statistics and Population Genetics for Forensic DNA Analysis, instructed by Dr. Bruce Weir, Graduate level internet course.

February 1999 DNA Proficiency Testing as a Quality Assurance Tool, various instructors, Workshop at the Annual AAFS Meeting held in Orlando, FL.

February 1999	Internet for Forensic Scientists, various instructors, Workshop at the Annual AAFS Meeting held in Orlando, FL.
February 1998	Developments in Trace Evidence Examinations: Interpretation of Material Transfers, various instructors, Workshop at the Annual AAFS Meeting held in San Francisco, CA.
October 1997	Forensic Microscopy, instructed by John Delly of the McCrone Research Institute, held at the North Louisiana Criminalistics Laboratory. (1 week)
September 1997	Presenting DNA Statistics in Court, instructed by George Carmody and Bruce Weir, Workshop at the 8th International Symposium on Human Identification in Scottsdale, AZ.
February 1997	Advanced DNA Technologies: Automation and Application, various instructors, Workshop at the Annual AAFS Meeting held in New York City, NY.
October 1996	STR Technology, various instructors, Workshop at the Fall 1996 SAFS Meeting held in Raleigh, NC.
October 1996	Chemiluminescence Workshop, various instructors, Workshop at the Fall 1996 SAFS Meeting held in Raleigh, NC.
August 1996	Bloodstain Pattern Interpretation, Instructed by Paulette Sutton, Steven A. Symes and Lisa Elrod, held at the North Louisiana Criminalistics Laboratory. (1 week)

Courtroom Experience: List the discipline(s) in which you have qualified to testify as an expert witness and indicate over what period of time and approximately how many times you have testified in each.

Qualified as an expert in Forensic DNA Analysis in Alaska and Louisiana (>70 times in 14 years)

Professional Affiliations: List any professional organizations of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

American Academy of Forensic Sciences (AAFS) (Fellow)
 Southern Association of Forensic Scientists (SAFS) (former member)
 Louisiana Association of Forensic Scientists (LAFS) (former member)

Employment History: List all scientific or technical positions held, particularly those related to forensic science. List current position first. Be sure to indicate employer and give a brief summary of principal duties and tenure in each position.

Job Title	Forensic Scientist IV	Tenure	11/07 - present
Employer	Alaska Department of Public Safety Scientific Crime Detection Laboratory		
Provide a brief description of principal duties:			
Supervise the DNA and Biological Screening units of the laboratory. Serve as the AK State CODIS Administrator. Grant writing and purchasing of supplies for the Perform DNA analysis on forensic casework. Perform scientific techniques in the identification of body fluids, i.e., blood and semen. Perform validations, technical and administrative review of validations and casework, prepare written reports and provide expert witness testimony.			

Job Title	Criminalist III	Tenure	09/03 – 11/07
Employer	Alaska Department of Public Safety Scientific Crime Detection Laboratory		
Provide a brief description of principal duties:			
Perform DNA analysis on forensic casework. Perform scientific techniques in the identification of body fluids, i.e., blood and semen. Perform validations, technical and administrative review of validations and casework, prepare written reports and provide			

expert witness testimony.

Job Title	Forensic Scientist I/II	Tenure	07/01/1996 – 06/30/2003
Employer	North Louisiana Criminalistics Laboratory		
Provide a brief description of principal duties:			
Evidence storage, tracking and examination – DNA analysis by PCR method, STR typing using a 377 DNA Sequencer and GeneScan and GenoTyper software, report preparation and court testimony, validation of methods and reagents, technical review of DNA case files, purchasing of reagents and supplies for the DNA section, Administrative review and organization of proficiency testing for the DNA section, conducting internal laboratory audits to ensure compliance with ASCLD/LAB requirements, method and protocol development.			

Job Title	Student Intern	Tenure	09/95 – 05/96
Employer	Alabama Department of Forensic Sciences		
Provide a brief description of principal duties:			
Processed blood samples for the Combined DNA Index System (CODIS) and assisted in validation of Restriction Fragment Length Polymorphism (RFLP) typing.			

Job Title	Graduate Assistant	Tenure	08/94 – 08/95
Employer	University of Alabama at Birmingham		
Provide a brief description of principal duties:			
Conducted research on the external vs. internal cocaine identification of hair.			

Other Qualifications: List below any scientific publication and/or presentation authored or co-authored, research in which you are or have been involved, academic or other teaching positions you have held, and any other information which you consider relevant to your qualification as a forensic scientist.
(Use additional sheets if necessary.)

Workshops and Classes Taught:

- 09/27/99 Interpreting STR Results of Mixed Samples, Workshop at the SAFS Fall 1999 Meeting in Myrtle Beach, SC
- 01/11 – 15/99 DNA Evidence: Evaluating, Interpreting, Reporting & Presenting, Class at the North Louisiana Criminalistics Laboratory in Shreveport, Louisiana.
- 05/25/98 Implementation of DNA in the Forensic Laboratory, Workshop at the SAFS Spring 1998 meeting in New Orleans, LA
- 08/11-15/97 Forensic DNA Analysis, Class at the North Louisiana Criminalistics Laboratory in Shreveport, Louisiana.

PRESENTATIONS:

- February 2006 “Blood Brothers”: A Case of “Identical Non-Twins”, AAFS Meeting, Seattle, WA.
- July 2002 Reduced Volume PCR Amplification Reactions Using the AmpFISTR Profiler Plus Kit, Association of Forensic DNA Analysts and Administrators, Austin, TX.
- February 2002 Reduced Volume PCR Amplification Reactions Using the AmpFISTR Profiler Plus Kit, AAFS Annual Meeting, Atlanta, GA.

April 2001 Validation of Reduced Volume PCR Amplification Reactions Using the AmpFISTR Kits, SAFS Meeting, Williamsburg, VA.

February 1999 Internal Validation of the AmpFISTR Profiler Plus and COfiler PCR Amplification Kits, AAFS Meeting, Orlando, FL.

February 1999 A Validation Regimen in the DNA Laboratory, LAFS Meeting, Alexandria, LA.

September 1997 Validation of AmpFISTR Blue, Green I, and Profiler, 8th International Symposium on Human Identification, Scottsdale, AZ.

October 1996 The Effect of Hae III Digestion on PCR Based Typing Systems, SAFS Meeting, Raleigh, NC.

PUBLICATIONS:

Reduced Volume PCR Amplification Reactions Using the AmpFISTR Profiler Plus Kit, Journal of Forensic Sciences (2002) 47(6): 1224-37; Gaines ML, Wojtkiewicz PW, Valentine JA, Brown CL.

Preparation and Evaluation of Arylazide-Substituted Pyridine Adenine Dinucleotides for Photoaffinity Labeling Experiments, Photochemistry and Photobiology (1996); 63(6): 793-799; Liu W, Gaines M, Bao R, Clifford J, Li Y.

High Performance Liquid Chromatographic Analysis of Enantiomeric Composition of Abused Drugs, Forensic Sci Rev (1996); 8(2): 91-109; Sellers JK, Duffit GL, Gaines ML, Liu RH.

MEETINGS ATTENDED:

15th National CODIS Conference and CODIS State Administrators Meeting
November 2009 - Reston, VA

Familial Searching and Genetic Privacy Symposium
CODIS State Administrator's Meeting
March 2008 – Arlington, VA

13th National CODIS Conference and CODIS State Administrators Meeting
October 2007 – San Francisco, CA

CODIS State Administrators Meeting
May 2007 – Las Vegas, NV
May 2010 - St. Louis, MO

12th National CODIS Conference and CODIS State Administrators Meeting
October 2006 – Arlington, VA

11th National CODIS Conference
November 2005 – Arlington, VA

10th National CODIS Conference
November 2004 – Arlington, VA

Association of Forensic DNA Analysts and Administrators
July 2002- Austin, Texas

American Academy of Forensic Sciences
February 2006 – Seattle, Washington
February 2002 – Atlanta, Georgia
February 1999 – Orlando, Florida
February 1998 – San Francisco, California
February 1997 – New York City, New York
February 1996 – Nashville, Tennessee

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Southern Association of Forensic Scientists
Spring 2001 – Williamsburg, Virginia
Fall 2000 – Asheville, North Carolina
Fall 1999 – Myrtle Beach, South Carolina
Spring 1998 – New Orleans, Louisiana
Fall 1996 –Raleigh, North Carolina

Louisiana Association of Forensic Scientists
Winter 2001–Shreveport, Louisiana
Winter 2000 –New Orleans, Louisiana
Winter 1999 –Alexandria, Louisiana
Spring 1998 –New Orleans, Louisiana
Fall 1997 –Alexandria, Louisiana
Winter 1997 –W. Monroe, Louisiana

8th International Symposium on Human Identification
Fall 1997–Scottsdale, Arizona