

# STATEMENT OF QUALIFICATIONS

(Use additional sheets if necessary)

**Name of Lab:** NCSBI Crime Laboratory  
(Raleigh)

**Date:** 7/18/2003

**Name:** Elizabeth Kennedy  
**Job Title:** Chemist Trainee

**Discipline(s):** Indicate all areas in which you do casework.

☐ Controlled Substances

☐ DNA

☐ Toxicology

☐ Firearms/Toolmarks

☒ Trace Evidence

☐ Questioned Documents

☐ Serology

☐ Latent Prints

## Education: List all higher academic institutions attended.

Institution	Dates Attended	Major	Degree Completed
Campbell U.	1/1997 - 8/1999	Pharmaceutical Science	BS
Clarkson U.	8/1994 - 12/1996	Undergraduate	(Transferred)

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

Basic Law Enforcement Training (NC BLET) 2003  
"Child Fatality" NC Mediolegal Seminar 2001  
"The Fate of Human Remains after Death" NC Mediolegal Seminar 2000  
"Reverse-Phase HPLC Column Selection and Optimization" Waters, August 1999  
"Sixteenth Triangle Chromatography Symposium, May 1999  
"Intro. To Capillary Electrophoresis" Southeastern Region Conference, ACS, Nov 1998

## 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.

None

## 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.

None

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

Job Title:	Chemist Trainee - Trace Evidence	Employer:	NC SBI Crime Laboratory
<b>Principal Duties:</b>  Training in the discipline of Gunshot Residue Analysis: the examination of gunshot residue deposited on various surfaces during the discharge of a firearm. This includes handling of the Gunshot residue kits, swabs, and tapelifts which may result in their instrumental analysis by stereo microscope, FTIR, AA, SEM, and/or Energy Dispersive X-ray system. The results will be interpreted and discussed with law enforcement, district attorneys, and defense attorneys. This may also result in Expert testimony in court pertaining to results. A full description can be found in the Position Description for Forensic Chemist I in the Trace Evidence Section.  Also proficient in the analysis of explosive residue using capillary electrophoresis to determine the presence of their individual inorganic cations and anions.  <div style="text-align: right;">Tenure: 12/2002 - current</div>			

Job Title:	Forensic Chemist Analyst III	Employer:	NC Office of the Chief Medical Examiner
<b>Principal Duties:</b>  Performed routine assays to determine toxicity of licit/illicit drugs in postmortem and antemortem specimens, unidentified physical evidence, and other agents as requested by NC Medical Examiners. Proficient in the analysis of volatiles, cocaine, opioids, benzodiazepines, methamphetamines, GHB, carbon monoxide, etc. Performed solid phase and liquid-liquid extractions daily for screening and quantification purposes. Independently responsible for using proper judgement when reviewing cases to determine extraction methods, instrumentation, and report generation. Proficient using and maintaining analytical instrumentation such as GC (Headspace, NPD, FID, ECD) GC/MS, UV/Vis, HPLC, and EIA systems. Generated daily reports for all cases, specimens and chain of custody. Authored SOPs for the extraction and analysis of drugs using HPLC instrumentation. Interact with law enforcement officials, pathologists and the public regarding ME cases. Daily use of Microsoft Access, Word, Excel, HP Chemstation, and TurboChrom Software. Shared inventory responsibilities with co-workers.  <div style="text-align: right;">Tenure: 7/1999 - 12/2002</div>			

Job Title:	Intern	Employer:	NCSBI Crime Laboratory
<b>Principal Duties:</b>  Researched and implemented methods for analyzing explosive residue using capillary electrophoresis (CE). Created validation reports and SOPs for anion and cation analysis methods using CE. Prepared and presented two separate PowerPoint presentations for section agents and fellow students.			

Tenure: 1-4/1999
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Job Title: Research Assistant	Employer: Campbell U. School of Pharmacy
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**Principal Duties:**

Implemented a method for the HPLC analysis of steroid mixtures, (estriol, estradiol, estrone, and progesterone).

Developed a method for MEKC (micellar electrokinetic chromatography) analysis of resveratrol.

Performed solid phase extractions, stability studies, absorption studies, LOD, LOQ, and linearity.

This research project turned into an independent research project for the fall semester 8-12/1999 resulting in a poster presentation at the Sixteenth Triangle Chromatography Symposium, May 1999.

Tenure: 5-8/1999

**Other Qualifications:** List below and scientific publication and/or presentation you have 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)

"Simultaneous Quantification of Opioids in Blood by EI-MS Analysis Following Deproteination, Deautomerization of Keto Analytes, SPE, and Trimethylsilyl Derivatation." Jeri D. Roper-Miller<sup>1</sup>, Matthew Lambing<sup>2</sup>, and Ruth E. Winecker<sup>1</sup>. <sup>1</sup>Office of the Chief Medical Examiner, Chapel Hill, NC, <sup>2</sup>Southwestern Institute of Forensic Science, Dallas, TX.

"Separation of the cis and trans Isomers of Resveratrol by Cyclodextrin Modified Micellar Electrokinetic Chromatography". Elizabeth Kennedy and William Chestnut; Department of Pharmaceutical Sciences, Campbell University; Poster Presentation for the Sixteenth Triangle Chromatography Symposium, May 1999.

"Validation of Cations and Anions of Explosive Residue Using Capillary Electrophoresis." Elizabeth Kennedy and Shawn Lee. North Carolina State Bureau of Investigation Crime Laboratory, April 1999.