


DEAR ROSEMARY CHIAVETTA,

PLEASE ACCEPT THIS AS  
TO BE ADDED TO CASE  
(C-2018-3004294) AS REQUIRED  
BY JUDGE ELIZABETH H. BARNES  
DATED MAY 3 2019  
CHRISTINA DIGIULIO'S RESUME

Sincerely yours  
William J. Baker  


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MAY 23 2019

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

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C-2018-3004294

PA PUBLIC UTILITY COMMISSION  
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**Christina Lynn DiGiulio**

2019 MAY 19 AM 9:52

[chrisdigulio@gmail.com](mailto:chrisdigulio@gmail.com)

443-528-9698 (mobile)

PA PUC  
SECRETARY'S BUREAU

### **Skills and Abilities**

Able to operate and maintain the following instruments: GC, GC/MS, ICP, ICP/MS, IC, NIR, FT-IR, UV-Vis, thermal desorption-GC/MS, HPLC, FAAS/GFAAS/EAAS, FIMS, MARS, JFTOT, and vapor sorption.

Familiar with MALDI-TOF and LC/MS.

Worked in a class 100 clean room.

Experience with Scanning Electron Microscopy.

Chemometrics: Experience with Python and MATLAB software (attended a class on PLS Toolbox).

Experience with LIMS (Laboratory Information Management System).

Experienced with EPA OSW's SW-846 manual, EPA drinking water test methods, air test methods, multi media test methods, pesticides and toxic substances test methods.

Strong research and analytical skills developed through experience.

### **Education and Certifications**

2000, B.S. (Biology-Chemistry, minor in Criminal Justice) Lock Haven University of Pennsylvania, Lock Haven, Pennsylvania

2003, Calculus Harford County Community College, Bel Air, MD

2011, ICS Training, Dionex, Fort Belvoir, Va

2011, Acquisition Certification, SPRDE - SCIENCE AND TECHNOLOGY MGR LEVEL 2

2010, Acquisition Certification, SPRDE - SCIENCE AND TECHNOLOGY MGR LEVEL 1

2008, COR, Fort Belvoir, Va.

2005, Chemometrics, Eigenvector Research, Inc., FACSS, Quebec City, Quebec, Canada

2004, Dissolution Training Course, United States Pharmacopeia, Rockville, MD

2003, ICP/MS Training Course, A. Gutierrez Inc., Aberdeen, MD

2003, 40 Hour Hazwoper Certification, 29 CFR 1910.120(e), Compliance Solution, Columbia, MD

2000, EMT, Commonwealth of Pennsylvania Department of Health, Lock Haven, Pennsylvania

### **Employment**

#### **05/2008- present, DB-03, 1320- Chemist for NVESD-ST-CM**

Chemist for the US Army, CERDEC, RDECOM, Science and Technology Division, Countermine Branch, Chemistry Team. Primary duties include COR for several contracts, maintaining and expanding the analytical chemistry laboratory, creating and implementing quality control measures for sampling and analysis, developing sampling and test methods for the analysis of explosives, and research in the area of explosives detection. Duties also include adjusting existing test methods for use in specific applications as needed by the Department of Defense, evaluation of new and existing technologies for stand-off explosive detection, and supporting any of Night Vision's analytical chemistry needs.

#### **11/2007-05/2007, Chemist, Alion, Fort Belvoir, VA**

Contractor for the US Army, CERDEC, RDECOM, Science and Technology Division, Countermine Branch, Chemistry Team. Primary duties include maintaining and expanding the analytical chemistry laboratory, creating and implementing quality control measures for sampling and analysis, developing sampling and test methods for the analysis of explosives, and research in the area of explosives detection. Duties also include adjusting existing test methods for use in specific applications as needed by the

Department of Defense, evaluation of new and existing technologies for stand-off explosive detection, and supporting any of Night Vision's analytical chemistry needs. Acquired necessary clearance.

**11/2006-11/2007, Analytical Chemist, Aerotek, Inc., Fort Belvoir, VA**

Contractor for the US Army, CERDEC, RDECOM, Science and Technology Division, Countermine Branch, Chemistry Team. Primary duties include maintaining and expanding the analytical chemistry laboratory, creating and implementing quality control measures for sampling and analysis, developing sampling and test methods for the analysis of explosives, and research in the area of explosives detection. Duties also include adjusting existing test methods for use in specific applications as needed by the Department of Defense, evaluation of new and existing technologies for stand-off explosive detection, and supporting any of Night Vision's analytical chemistry needs. Acquired necessary clearance.

**8/2004-11/2006, Staff Scientist, Nova Research, Inc., Alexandria, VA**

Worked within the Chemistry Division for the Chemical Dynamics and Diagnostics Branch, Chemical Sensing/Chemometrics Section at the Naval Research Laboratory in Washington DC. Focus has been primarily in the area of analytical chemistry and chemical sensing. Performed analytical method development and validation. Proficient in quality control measures. Instruments being used on a daily basis include GC (Agilent/HP and Varian), GC/MS (Agilent/HP and Varian), NIR, ICP-MS (Thermo Element), and Thermal Desorption -GC/MS. Other projects focused in the area of metals analysis via ICP-MS and SEM (located in NRL's Institute for Nanoscience).

**8/2003-8/2004, Chemist, United States Pharmacopeia, Rockville, MD**

Worked for the research and development group at USP. Performed routine chemical analyses of reference standard materials to determine the chemical composition and purity of substance. Selected appropriate established methods and procedures for testing by considering the chemical identity of the sample, its physical state, and the type of data required. Performed routine statistical calculations. Referred unusual observations or data to supervisor and recommended minor modifications to established procedure, or the use of an alternative. Prepared written reference standard evaluation reports for review by the supervisor and senior technical staff. Followed standard operating procedures and instrument procedures. Proficient in laboratory documentation procedures. Tasked to maintain the ICP and creation of the standard operating procedure for the ICP. Instruments used on a daily basis include HPLC, UV-VIS, ICP, NIR, Vapor sorption, and FT-IR.

**7/2002-8/2003, Physical Science Technician, United States Army Center for Health Promotion and Preventative Medicine, Edgewood Area of Aberdeen Proving Grounds, MD**

Employed with the Metals Team of the Analytical Spectrometry Division. Conducted metals preparation and analysis of environmental and occupational health samples, using a variety of inorganic methods (EPA SW-846, ASTM, NIOSH). Project work completed within mandated holding times, customer requested turn around times, and with minimal supervision. All quality control and documentation requirements are upheld to insure reported data is accurate and defensible. Upheld responsibilities in the area of quality control. Involved in method implementation and process/quality improvement initiatives. Independently researched and applied corrective actions for sample preparation laboratory contamination issues. Upheld the responsibility for the monthly calibration of all pipettes used by the metals team. Metals Team Safety Officer. Trained on ICP-MS (Agilent 4500 Series & Perkin Elmer 6100, software: HP Chemstation), ICP, and Perkin Elmer FIMS 400. Experience with LIMS, Excel, Word, Access, and Outlook. Prior to leaving USACHPPM, obtained chemist rating through the Army Civilian Personnel. Clearance maintained.

**1/2002-7/2002, Research Participant (intern) through the Oakridge Research Institute for Science and Education, Analytic Spectroscopy Division of USACHPPM, Edgewood, MD**

Received a competitively awarded research internship through ORISE. Performed sample preparation and analysis of environmental and occupational health samples for the GC/MS Team. Became the primary extractionist for the semi-volatiles section of the GC/MS Team. (Utilized EPA Extraction Methods: 3550, 3545, and 3510.) Managed Satellite Accumulation Sites for two labs. Maintained waste disposal logbooks, laboratory sample preparation and extraction notebooks, sample inventory logbooks, solvent tracking logbooks, and all extraction lab orders. Maintained clearance from Army ROTC program (secret clearance was earned in ROTC).

### **Publications/Technical Reports**

Christina DiGiulio, K.J. Johnson, S.L. Rose-Pehrsson, Abstract: "Analysis of Surface Wipes for the Detection of 2,6-di-tert-butyl-4-nitrophenol on Navy Submarines" FACSS, Quebec City, Canada, October 2005.

K.J. Johnson, S.L. Rose-Pehrsson, Christina DiGiulio, "USS Toledo Atmospheric Sea Trials: Analytical Results" *Naval Research Laboratory*, NRL/MR/6112-05-8889, Naval Research Laboratory, Washington DC, July 18, 2005.

K.J. Johnson, S.L. Rose-Pehrsson, Christina DiGiulio, "USS Virginia Atmospheric Sea Trials: Analytical Results" *Naval Research Laboratory*, NRL/MR/6180-06-8940, Naval Research Laboratory, Washington DC, March 6, 2006.

### **Areas of Research**

#### **Present:**

Method development for sampling, extraction, and analysis of explosives.

Stand-off detection for explosives.

Vapor and surface studies for a better understanding of the behavior of explosives on a variety of surfaces under a variety of conditions.

#### **Past:**

Fuels analysis by GC, GCMS, NIR, FT-Raman and JFTOT (JFTOT analysis examines the oxidation rates of fuels to determine any differences in insoluble formation propensities.)

Diesel-range alkane sampling and analysis method (sampling is via Tenax TA air sampling tubes, analysis is done using thermal desorption-GCMS).

Metals analysis (working with nanorods) by ICP-MS, SEM, UV-VIS, and FT-IR.

Quantitative surface wipe analysis for DTBNP (2,6-di-tert-butyl-4-nitrophenol) and 2-butoxyethanol on navy submarines.

Real-time chemical sensing.

 (C-2018-3004294)



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c/o Commonwealth of Pennsylvania  
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