



NAME:	Cassandra (Clyde) Duvall	DATE:	5/20/2022
LABORATORY:	Houston Forensic Science Center		
JOB TITLE:	Forensic Scientist III - Toxicology		

Indicate all disciplines in which you do casework:

<input type="checkbox"/>	Seized Drugs	<input type="checkbox"/>	Forensic Biology/DNA
<input type="checkbox"/>	Crime Scene	<input type="checkbox"/>	Latent Prints
<input type="checkbox"/>	Digital Forensics	<input checked="" type="checkbox"/>	Toxicology
<input type="checkbox"/>	Firearms	<input type="checkbox"/>	Forensic Audio/Video

List all categories or sub-disciplines in which you do casework:

Human Performance Toxicology

Texas Forensic Science Commission (TFSC) Licensing

Per TFSC section 651.203, starting January 1, 2019, the following disciplines are subject to licensing: Seized Drugs, Toxicology, Forensic Biology & Firearms/Toolmarks. If applicable, select the type of license issued by TFSC (Select N/A if not applicable):

Type of License:	Toxicologist (Interpretative)
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Certifications:

Organization	Discipline	Type/Level (N/A if not applicable)
N/A		

Education:

List all higher education institutions attended (list high school if no college degree has been attained)

Institution	Dates Attended	Major	Type of Degree Earned
The George Washington University	September 2013 - May 2015	Forensic Sciences	Master Degree
Mercyhurst University	September 2009 - May 2013	Applied Forensic Sciences	Bachelor of Science

Other Training:

List continuing education, workshops, in service, and other formal training received. Please include the course title, source, and dates of training.

<p>Training Courses:</p> <ul style="list-style-type: none"> 2022 Topics in Forensic Science (TIFS) Conference, Harris County Institute of Forensic Sciences (HCIFS), May 18-19, 2022 Introduction to Pharmacology, HFSC, January 19, 2022 2021 Current Trends in Forensic Toxicology Symposium (Day 2), CFSRE, June 1, 2021
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- 2020 TIAFT Educational Symposium (Days 1, 2 and 3) - Archival, CFSRE, December 21-22, 2020
- FSC Mandatory Legal and Professional Responsibility Course, TFSC, October 29, 2020
- 2020 SOFTember Virtual Scientific Sessions, SOFT, September 9-30, 2020
- 2020 Current Trends in Forensic Toxicology Symposium (Days 3, 4 and 5), CFSRE, June 10-12, 2020
- Leading Innovative Change, Cuyahoga County HR OED and Training, March 20, 2019
- Mass Spectral Interpretation, FSIO, July 28, 2016
- Expert Testimony Training for the Prosecutor and Scientist I and II, ForensicED, May 3, 2016
- ICS for Single Resources and Initial Action Incident (IS-00200.b), FEMA, December 3, 2015
- Introduction to Incident Command System (IS-00100.b), FEMA, December 3, 2015
- Law 101: Legal Guide for the Forensic Expert, NIJ, November 17, 2015
- National Incident Management System (NIMS) An Introduction (IS-00700.a), FEMA, November 2, 2015
- To Hell and Back: The Ethics of Stewardship and the Stewardship of Ethics, ForensicED, October 23, 2015

Workshops:

- Borkenstein Alcohol Course, Virtual, May 18-20 and 25-27, 2021
- A New Realm of Novel Psychoactive Substance (NPS) Opioids and NPS Benzodiazepines— Analytical and Interpretive Considerations, AAFS Annual Meeting, Virtual, February 16, 2021
- Ethanol in Forensic Casework: Strategies for Analysis and Interpretation, AAFS Annual Meeting, Baltimore, MD, February 19, 2019
- A Decade Later: The State of Florida Vs. Casey Anthony Revisited — Truth? Justice? Both? Neither?, AAFS Annual Meeting, Baltimore, MD, February 18, 2019
- Advanced Medicolegal Forensic Series, Cuyahoga County Medical Examiner's Office, June 11-15, 2018
- Forensic Drug Chemistry Seminar, DEA Special Testing and Research Laboratory, Dulles, VA, June 4-9, 2017
- Alcohol and Drugs of Abuse Affecting the Central Nervous System: Pharmacology, Toxicology, and Impairment, SOFT Regional Workshop, Dayton, OH, August 29-30, 2016
- Medicolegal Death Scene Investigation, Cuyahoga County Medical Examiner's Office, March 7-9, 2016
- Drug Facilitated Sexual Assault (DFSA), SOFT Regional Workshop, Washington, DC, August 11-12, 2014

Meetings:

- American Academy of Forensic Sciences 73rd Annual Scientific Meeting, Virtual, February 12-19, 2021
- Midwest Assoc. for Toxicology & Therapeutic Drug Monitoring Meeting, Cleveland, OH, April 4-5, 2019
- American Academy of Forensic Sciences 71st Annual Scientific Meeting, Baltimore, MD, February 18-23, 2019
- Midwest Assoc. for Toxicology & Therapeutic Drug Monitoring Meeting, Indianapolis, IN, April 12-13, 2018



- American Academy of Forensic Sciences 68th Annual Scientific Meeting, Las Vegas, NV, February 22-27, 2016
- American Academy of Forensic Sciences 65th Annual Scientific Meeting, Washington, DC, February 18-23, 2013

Courtroom Experience:

List the disciplines/sub-disciplines in which you have testified as an expert witness and indicate over what time period and approximately how many times you have testified in each.

Discipline or Sub-Discipline	Time Period	Times Testified
Human Performance Toxicology	October 2015 - October 2020	1

Professional Affiliations:

List any professional organizations of which you are or have been a member. Indicate any office(s) or positions held and the dates of these activities.

Organization	Member Status & Position(s) Held	Dates of Membership
American Academy of Forensic Sciences	Toxicology Member	2022-Present
	Toxicology Associate Member	2018-2022
	Toxicology Trainee Affiliate	2016-2018
	Toxicology Student Affiliate	2013-2016
Society of Forensic Toxicologists	Associate Member	2016-Present
	Student Member	2014-2016
Midwest Association for Toxicology & Therapeutic Drug Monitoring	Member	2016-2021

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 duties. Please list your dates of employment by month and year.

Job Title:	Forensic Scientist III - Toxicology	Dates of Employment:	January 2022 - Present
Employer:	Houston Forensic Science Center, Houston, TX		
Provide a brief description of duties below:			
Performing same duties as Forensic Scientist II – Toxicology and reviewing LC-MS/MS confirmation batch data			

Job Title:	Forensic Scientist II - Toxicology	Dates of Employment:	October 2020 – January 2022
Employer:	Houston Forensic Science Center, Houston, TX		
Provide a brief description of duties below:			
Performed ELISA drug screen and LC-MS/MS confirmation on forensic samples, reviewed ELISA drug screen batch data, drafted case reports, and testified in court			



Job Title:	Forensic Scientist II - Toxicology	Dates of Employment:	June 2018 - October 2020
Employer:	Cuyahoga County Medical Examiner's Office, Cleveland, OH		
Provide a brief description of duties below:			
Performed various analyses on forensic samples using GC-MS and LC-MS/MS, reviewed data assembled by fellow analysts, reviewed final toxicology lab reports, supported the QA/QC manager, coordinated supply orders for the laboratory, conducted research and aided in the development of new laboratory methods, including a Orbitrap LC-MS/MS method			

Job Title:	Forensic Scientist I - Toxicology	Dates of Employment:	October 2015 - June 2018
Employer:	Cuyahoga County Medical Examiner's Office, Cleveland, OH		
Provide a brief description of duties below:			
Performed volatiles assay by HSGC-FID, alkaline drug screen and confirmation in blood samples by GC-MS, cocaine and metabolites confirmation in blood and urine samples by GC-MS, and ELISA 15-panel drug screen			

Job Title:	Forensic Toxicologist	Dates of Employment:	February 2015 – September 2015
Employer:	Office of the Chief Medical Examiner, Washington, DC		
Provide a brief description of duties below:			
Facilitated the method development and validation of a DC Department of Transportation (DDOT) grant-funded LC-MS/MS project, performed ELISA drug screen and volatiles assay by HSGC-FID, and accessioned samples			

Other Qualifications:

List below any scientific papers authored or co-authored and/or scientific presentations given, research in which you have been involved, academic or teaching positions you have held, and any other information you consider relevant to your qualification as a forensic scientist.

Publications: <ul style="list-style-type: none">S. Sofalvi, E.S. Lavins, I.T. Brooker, C.K. Kaspar, J. Kucmanic, C.D. Mazzola, C.L. Mitchell-Mata, C.L. Clyde, R.N. Rico, L.G. Apollonio, C. Goggin, B. Marshall, D. Moore and T.P. Gilson, "Unique Structural/Stereo-Isomer and Isobar Analysis of Novel Fentanyl Analogues in Postmortem and DUID Whole Blood by UHPLC-MS-MS" Journal of Analytical Toxicology, 2019, 1-15, Special IssueC. Clyde, S. Blake, S. O'Brien, I. Igwilo, and I.S. Lurie, "Application of Mixed-Mode Ultra High-Performance Liquid Chromatography to Forensic Drug Analysis" Analytical Methods, 2015, 7, 9763-9772
Presentations: <ul style="list-style-type: none">C. Clyde. "GC-MS Method Development and Validation Basics and Advances: Instrument Optimization." 2021 Current Trends in Forensic Toxicology Symposium, June 1, 2021, Virtual.



- C. Clyde. "Fentanyl Epidemic in Northeast Ohio; LC-MS/MS Method Development and 2016-2017 Statistics from Postmortem and Impaired Driving Cases." Midwest Association for Toxicology & Therapeutic Drug Monitoring Meeting, April 12-13, 2018, Hyatt Regency Indianapolis, IN.

Awards:

- 2018 Sunshine-Wong Travel Award, Midwest Association for Toxicology & Therapeutic Drug Monitoring
- 2013 Senior Student of the Year, Mercyhurst University Applied Forensic Sciences Department

Internships:

- Forensic Toxicology Lab Intern, Pretrial Services Agency, Washington, DC, September 2014-November 2014
- Forensic Toxicology Lab Intern, Office of the Chief Medical Examiner, Washington, DC, June 2014-August 2014
- Forensic Pathology/Medicolegal Death Investigation Intern, Mahoning County Coroner's Office, Youngstown, OH, May 2012-August 2012