



NAME:	Dana R. Mike	DATE:	2/27/2023
LABORATORY:	Houston Forensic Science Center		
JOB TITLE:	Forensic Scientist-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-Alcohol Analysis and drug screens by Immunoassay

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)

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
Louisiana State University	1/2003-5/2004	Chemistry	Bachelor of Science
Louisiana State University	8/1996-12/1999	Zoology	Bachelor of Science
Nicholls State University	8/1994-5/1996	Pre-Vet	(transferred)

Other Training:

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

<p>An Introduction to Drug Categories in Drug DUI Cases: CNS Stimulants, Part 1 - The DRE; In-house webinar provided by TSRP Webinars, January 25, 2023.</p> <p>An Introduction to Drug Categories in Drug DUI Cases: CNS Depressants, Part 2 – The Toxicologist; In-house webinar provided by TSRP Webinars, January 20, 2023.</p>



An Introduction to Drug Categories in Drug DUI Cases: CNS Depressants, Part 1 – The DRE; In-house webinar provided by TSRP Webinars, January 11, 2023.

DRE Basics: How a DRE Becomes a DRE & Introduction to the Matrix; In-house webinar provided by TSRP Webinars, January 4, 2023.

2022 Testimony Training; In-house webinar provided by HFSC Quality Division, October 20, 2022.

Analytical, Interpretive, and Legal Issues Surrounding THC Analogs in DUID Casework; In-house webinar provided by AACC, August 9, 2022.

2022 Topics in Forensic Science (TIFS) Conference: Drug Chemistry and Forensic and Forensic Toxicology; In-house webinar provided by Harris County Institute of Forensic Sciences, May 18 -19, 2022.

Method Development Tips and Tricks from Simple to Complex Sample Preparation (North America); In-house webinar provided by eLearning Phenomenex, February 8, 2022.

The 58th Annual Meeting of the International Association of Forensic Toxicologists; In-house webinar provided by TIAFT 2022 Virtual, February 1 – 3, 2022.

Introduction to Pharmacology; In-house webinar provided by Houston Forensic Science Center, January 19, 2022.

Human Factors and Cognitive Bias in the Forensic Sciences; In-house webinar provided by Harris County Institute of Forensic Sciences, November 1, 2021.

The Evaluation and Certification of Drug Caused and Related Deaths for Forensic Pathologists, Toxicologists and Death Investigators; In-house webinar provided by the Center for Forensic Science Research and Education, October 29, 2021.

2021 Southwestern Association of Forensic Scientists (SWAFS) Conference (San Antonio, TX):

- SWAFS workshop 1: Impaired Driving During the COVID Pandemic, October 13, 2021
- SWAFS workshop 2: Legal Cannabis and Edibles While Driving, October 13, 2021

Get Your Peaks into Shape: General GC Column Troubleshooting; In-house webinar provided by Agilent Technologies, October 5, 2021.

Introduction to Drug Caused and Related Death Investigation; In-house webinar provided by the Center for Forensic Science Research and Education, September 23-24, 2021.

Analysis Solutions for Gases and Very Volatile Compounds: PLOT Columns; In-house webinar provided by Agilent Technologies, September 16, 2021.

GC/MS Fundamentals: What are GC/SQ, TQ, and Q-TOF, and When to Use Them?; In-house webinar provided by Agilent Technologies, September 8, 2021.

Decisions, Decisions: How to Select the Correct GC Column for Your Application; In-house webinar provided by Agilent Technologies, August 30, 2021.

Mass Spectrometer Troubleshooting; In-house webinar provided by Agilent Technologies, August 30, 2021.

Stop the Bleed: Tips and Tricks on GC Column Bleed; In-house webinar provided by Agilent Technologies, August 30, 2021.

Tune Into Your Mass Spectrometer: Troubleshooting GC/MS and Tune Report Interpretation; In-house webinar provided by Agilent Technologies, August 27, 2021.

Complete Guide to Capillary Flow Technology; In-house webinar provided by Agilent Technologies, August 18, 2021.

Pure Chromatography; In-house webinar provided by Restek, August 18, 2021.



Powering Up: GC & GC/MS_Successfully Restarting Lab Operations; In-house webinar provided by Agilent Technologies, August 16, 2021.

Returning to the Lab: Columns, Sample Prep, and Supplies Considerations; In-house webinar provided by Agilent Technologies, August 16, 2021.

Criminal Justice Reform and Forensics: The Importance of Evidence; In-house webinar provided by University of Pennsylvania Carey Law School, August 16, 2021.

Annual Safety Training; In-house webinar provided by Texas Mutual, February 2, 2021.

2020 Society of Forensic Toxicologists (SOFT) Conference: 2 online workshops:

- SOFTember Workshop 2: Cannabis Impaired Driving: Where Are We In 2020?, September 22, 2020
- SOFTember Workshop 3: GC-MS and LC-MS/MS Method Development- A Step by Step Guide, September 24, 2020

Ethics Workshop: In-house training by Houston Forensic Science Center, July 29, 2020.

Introduction to Liquid Chromatography-Mass Spectrometry/Mass Spectrometry with applications to Forensic Chemistry; In-house 16-hour course provided by Houston Forensic Science Center, December 3, 12-13, and 17, 2019.

Southwestern Association of Toxicologists Workshop: Spring 2019 Meeting, Houston, Texas, May 1, 2019.

Ethics Training; In-house training provided by Houston Forensic Science Center, February 22, 2018.

Tecan Care & Feeding of Your Instrument; In-house webinar training provided by Tecan, June 12, 2018.

Forensic Pharmacology Course; In-house 3-day online course provided by The Center for Forensic Science Research & Education, November 5-7, 2018.

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
Toxicology-Blood Alcohol Analysis	8/8/2019-present	6

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
Southwestern Association of Toxicologists	Active	2013-present



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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-Toxicology	Dates of Employment:	11/13/17-present
Employer:	Houston Forensic Science Center		

Provide a brief description of duties below:

Performs routine to complex chemical analysis of human biological specimens using chemical and instrumental methodologies to detect and quantify alcohol and drugs in biological matrices and liquid.

- Authorized to perform alcohol analysis and write case reports in the Toxicology section using the following method: Analysis of Alcohol and Other Volatiles by Headspace GC-FID.
- Authorized to perform drug screening by enzyme-linked immunosorbent assay and to write case reports in the Toxicology section using the following method: Enzyme-Linked Immunosorbent Assay (ELISA)
- Authorized to perform GC-MS drug screening and confirmation analyses and to write case reports in the Toxicology section using the following methods: Drug screen and qualitative confirmation by GC-MS (BSD) and Carisoprodol/Meprobamate confirmation by GC-MS (CAR)
- Authorized to perform technical review of batches and/or case reports generated using the following methods:
 - Analysis of Alcohol and Other Volatiles by Headspace GC-FID
 - Drug Screen by Enzyme-Linked Immunosorbent Assay (ELISA)
 - Drug Screen and Qualitative confirmation by GC-MS (BSD)
- Authorized to perform admin
- Prepare accurate and precise notes and technical reports.
- Maintain and calibrate scientific instruments and follow quality control measures to ensure instruments meet required performance standards.
- Reviews work of other analysts and conduct administrative and technical review of casework. Perform experiments independently to troubleshoot analytical issues and develop and validate analytical methods as needed.
- Participate in revision of standard operating procedures.
- Train Forensic Analysts I and II on analytical procedures and laboratory practice.
- Provide technical assistance to police officers, members of the district attorney's office, and other members of law enforcement agencies, and the criminal justice community.
- Testify as an expert witness regarding analytical procedures and the scientific conclusions drawn from analysis.
- Partner with management and other staff to ensure other tasks are completed as assigned.

Job Title:	Toxicologist II-GC/MS Section Leader	Dates of Employment:	6/2014-11/2017
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Employer:	Harris County Institute of Forensic Sciences		
Provide a brief description of duties below:			
<p>GC/MS Team Leader responsibilities include but are not limited to:</p> <ul style="list-style-type: none"> -Supervising the workflow in the GC/MS Section of the Toxicology Laboratory. -Manage the following aspects of the GC/MS section. -Generate extraction work lists and barcodes for GC/MS extractions. -Assign extraction work lists to analysts when required. -Ensure all instruments are properly maintained and calibrated with required documentation (GC/MS, GC/MS/MS, Headspace GC/MS). -Troubleshoot instruments and contact service technicians or crime laboratory technical specialist when required. -Coordinate method validations and reagent verifications. -Perform annual review of SOP(s) and makes suggestions for improving the efficiency of analytical methods. -Perform Volatile and Helium Screening analysis. -Communicate any problems to toxicology manager. -Review and generate reports that support the analytical findings. -Provide testimony as an expert witness in legal proceedings. -Assists in ensuring the laboratory remains in compliance with ABFT and ASCLD/LAB-International, and ISO 17025 standards. -Participate in training, competency testing and proficiency testing according to established protocols. -Follow all Safety, Method Manual, and Quality Assurance/Quality Control protocols. -Perform other duties as assigned by the toxicology managers and the Director of Toxicology and Chemistry. 			

Job Title:	Toxicologist III- GC/MS Section Leader	Dates of Employment:	10/2012-6/2014
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Employer:	Harris County Institute of Forensic Sciences		
Provide a brief description of duties below:			
<p>In addition to Toxicologist III duties, GC/MS Team leader responsibilities include but are not limited to:</p> <ul style="list-style-type: none"> -Supervising the workflow in the GC/MS section of the toxicology laboratory. -Manage the following aspects of the GC/MS section: extractions, maintenance of instruments, loading of instruments, data review and second data review. -Generate extraction work lists and barcodes for GC/MS extractions. -Assign extraction work lists when required. -Ensure all instruments are properly maintained and calibrated with required documentation (GC/MS, GC/MS/MS, Headspace GC/MS). -Troubleshoot instruments and contact service technicians or crime laboratory technical specialist when required. 			

Job Title:	Toxicologist III	Dates of Employment:	12/2004-10/2012
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Employer:	Harris County Institute of Forensic Sciences		
Provide a brief description of duties below:			
<p>Data processing/review for GC/MS and Headspace-GC/MS.</p> <ul style="list-style-type: none"> -Reporting analytical findings in JusticeTrax for GC/MS, GC/MS/MS and Headspace-GC/MS. -Perform solid-phase and liquid-liquid extractions for GC/MS and LC/MS/MS. -Perform Volatile Screening analysis. -Generate extraction work lists and barcodes for GC/MS extractions. 			



-Testify in a court of law when and if necessary.

Job Title:	Positive DOT Certifying Scientist	Dates of Employment:	2/2000-12/2002
Employer:	Kroll Laboratory Specialists, Inc.		
Provide a brief description of duties below:			
Perform analysis on urine specimens to detect. -Identify and quantify any illicit or therapeutic drugs that may be present in the specimen. -Transcribe/translate analytical data and reports to clients. -Certify official documents.			

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.

N/A