Wednesday

Poster Session		
7:30 pm – 9:00 pm	L1	A Risk Assessment of Lead Exposure in Glass Industry Workers: Evaluating Occupational Toxicity Nrashant Singh, PhD*
7:30 pm – 9:00 pm	L2	An Alcohol Impairment Evaluation in Cases of Severe Injury Maria Pieri, PhD*; Pascale Basilicata, PhD; Mariagrazia Marisei, MD; Angela Simonelli, PhD; Angela Silvestre, MD; Rossella Guadagni, PhD; Emanuele Capasso, MD, PhD; Massimo Niola, PhD
7:30 pm – 9:00 pm	L3	Biofluid Sampler: A Green and Robust Sampling and Sample Preparation Platform for Forensic Toxicological Analysis Abuzar Kabir, PhD*; Kenneth Furton, PhD
7:30 pm – 9:00 pm	L4	Cannabis-Based Medicines and Driving: Current Legal Issues in Switzerland Cristian Palmiere, MD*; Maria Pia Scarpelli, MD
7:30 pm – 9:00 pm	L5	Cocaine and Aortic Dissection: The Need to Overcome the Underreporting Bias Mariagrazia Marisei, MD*; Pascale Basilicata, PhD; Antonio Lombardi, MD; Angela Simonelli, PhD; Angela Silvestre, MD; Rossella Guadagni, PhD; Massimo Niola, PhD; Maria Pieri, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)
7:30 pm – 9:00 pm	L6	Comparative Postmortem Blood Alcohol Concentrations in Cardiac and Peripheral Blood: A Case Series Giulia Ricchezze, MS*; Erika Buratti, PhD; Alice Cerioni, PhD; Gianmario Mietti, PhD; Marta Cippitelli, PhD; Rino Froldi, MS; Mariano Cingolani, MD; Roberto Scendoni, MD, PhD
7:30 pm – 9:00 pm	L7	Ethanol Stability Over Time in Blood Samples Undergoing Headspace Analysis Ava La Lande*; M. Denise Gemmellaro, PhD
7:30 pm – 9:00 pm	L8	Forensic "ToxAlcology": Is It Really Over for the Forensic Human Community? Maria Pieri, PhD*; Pascale Basilicata, PhD; Mariagrazia Marisei, MD; Angela Simonelli, PhD; Angela Silvestre, MD; Rossella Guadagni, PhD; Claudia Casella, PhD; Massimo Niola, PhD
7:30 pm – 9:00 pm	L9	Leveraging Surveillance Data for the Analysis of Trends, Adulteration, and Novel Substances in the District of Columbia Needle Exchange Programs: A Four-Year Review Snehal Parikh, BS*; William Kim, BS
7:30 pm – 9:00 pm	L10	Mapping Mortality: A Decade's Review of Drug Usage in Maryland (2014–2024) Nicholas Boire, MD*; Stephanie Dean, MD; Rebecca Phipps, PhD

7:30 pm – 9:00 pm	L11	Revolutionizing Anti-Doping and Sports Forensics: Comprehensive Screening of Nutritional Supplements for WADA-Banned Substances Using High Resolution Mass Spectrometry Astha Pandey, PhD*; Anirudha Dixit, MS; Disha Kothari, PhD; Abhishek Trivedi, MS
7:30 pm – 9:00 pm	L12	The Opioid Crisis in Pakistan and Toxicological Interpretation: A Case Report Muhammad Chaudhary, MPhil*
7:30 pm – 9:00 pm	L13	WITHDRAWN
7:30 pm – 9:00 pm	L14	The Underreporting of Psychoactive Adulterants of Illicit Drugs of Abuse in Toxicological Samples Shayna Kasher, MSFS* (FSF Emerging Forensic Scientist Award Poster Presentation)
7:30 pm – 9:00 pm	L15	A Comparison of Sample Preparation Techniques for the Analysis of Drugs of Abuse in Oral Fluids Jared Burkhart*; Samantha Herbick, MSFS
7:30 pm – 9:00 pm	L16	A Gas Chromatography/Mass Spectrometry Analysis of Tetrahydrozoline in Alcoholic Beverage Residue Related to Drug-Facilitated Sexual Assault Alyssa Hampton, BS*; Ellen Mwenesongole, PhD
7:30 pm – 9:00 pm	L17	A Look at Nitazenes Our Lab Has Detected Across the Country From 2020 to 2020 Stuart Kurtz, MS*; Laureen Marinetti, PhD; Kevin Shanks, MS
7:30 pm – 9:00 pm	L18	A Ten-Year Retrospective Review of Death in Custody Toxicology Results From Jefferson County, Alabama Amy Theriault, DO*; Karen Scott, PhD
7:30 pm – 9:00 pm	L19	Accidental Acute Intoxication With Gummies Containing Delta-8- Tetrahydrocannabinol Stjepan Brzica, MChem*; Slavena Cukrov Bezbradica, PhD; Kristina Jurković, PhD; Martina Cvjetko Ljutić
7:30 pm – 9:00 pm	L20	An Assessment of Cross-Reactivity for Cannabinoids in Blood and Oral Fluid Using Enzyme Immunoassay Kits Sara Jablonski, MSFS*; Curt Harper, PhD
7:30 pm – 9:00 pm	L21	An Evaluation of Enzyme-Linked Immunosorbent Assay (ELISA) Screening Kits for the Detection of Nitazene Analogs Amanda Pacana, MSFS*; Britni Skillman, PhD
7:30 pm – 9:00 pm	L22	An Incident of Food Poisoning Attributed to Bongkrekic Acid and a Forensic Examination of the Deceased in Taiwan Chou Yihung, MS*
7:30 pm – 9:00 pm	L23	Assessing the Stability of NPS Benzodiazepines in Blood, Urine, and Serum Using LC/QqQ/MS Savannah Baker, MS*; Sara Walton, MS; Donna Papsun, MS; Alex Krotulski, PhD

7:30 pm – 9:00 pm	L24	Drug/Substance Toxicity-Related Deaths Examined at the West Tennessee Regional Forensic Center and Their Prescription Drug History: A Comparison of 2023 to 2013 Madeleine Phan, BS*; Ibrahim Ortanca, MD
7:30 pm – 9:00 pm	L25	Evaluating Extraction Parameters for the Detection of Chronic and Single-Dose Drug Exposure in Forensic Hair Analysis Using Design of Experiments Kaylyn Keith, BS*; Anthony DeCaprio, PhD; Mariana Colome Pena
7:30 pm – 9:00 pm	L26	Evaluation of the Cross-Reactivity of 27 Parent and 26 Metabolite Tetrahydrocannabinol Analogs Using a Tetrahydrocannabinol Carboxylic Acid ELISA and HEIA Kit Taylor Yates, BS*; Justin Poklis, BS; Alaina Holt, PhD; Ciena Bayard, BS; Michelle Peace, PhD; Stephen Raso, PhD
7:30 pm – 9:00 pm	L27	A Forensic Analysis of Environmental Fate and Biodegradation of Benzodiazepines in Synthetic Wastewater Using SPE-LC/MS Ali Alawi, MS*
7:30 pm – 9:00 pm	L28	Gabapentin Detection and Trends in Alabama Toxicology Cases (2017–2023) Belicia Sutton, MSFS*; Curt Harper, PhD; Taylor Williams
7:30 pm – 9:00 pm	L29	Improving Liquid Chromatography/Mass Spectrometry Sensitivity for Barbiturates Ethan Khandaker, BA*; William Campbell, PhD
7:30 pm – 9:00 pm	L30	Matrix-Matched Standards for Quantitative Elemental and Molecular Analysis of Hair in Forensic Toxicology Kaitlyn Bonilla, MS*; Ashley Fox; Chloe Phillips, BS; Matthieu Baudelet, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)
7:30 pm – 9:00 pm	L31	Modification of a Liquid Chromatography/Tandem Mass Spectrometry Method Targeting Lysergic Acid Diethylamide and Its Primary Metabolite to Include Nine Analogs Amy Patton, PhD*; Erin Karschner, PhD; Jeffrey Walterscheid, PhD; Jason Garcia, PhD
7:30 pm – 9:00 pm	L32	Old vs. New: A Novel Approach to Blood Alcohol Analysis In the Modern Day Forensic Laboratory. Timothy Fassette, MS*
7:30 pm – 9:00 pm	L33	Profiling Heavy Metals in Kratom Powder Purchased in Southeastern Pennsylvania and Southern New Jersey Xavia Pough*; Tom Gluodenis, PhD
7:30 pm – 9:00 pm	L34	The Quantitation of an Oral Fluid Drug Panel, Including THC, Using High Resolution Accurate-Mass (HRAM) Orbitrap Mass Spectrometry Courtney Patterson, MPS*; Kerry Hassell, PhD
7:30 pm – 9:00 pm	L35	Rapid Development of Analytical Methods and Prediction of Retention Times for Inhalants of Abuse on GC Stationary Phases Using Web-Based Modeling Software Jessi Collier, BS*; Whitney Dudek-Salisbury, MS

7:30 pm – 9:00 pm	L36	The Detection and Quantitation of Alcohol in Packed Red Blood Cells Jordan Keller, BS*; Connor Gailliot, BAS; Justin Poklis, BS; Carrol Nanco, MCLS; Carl Wolf, PhD; Grace Williams, PhD
7:30 pm – 9:00 pm	L37	The Extraction, Isolation, and Analysis of Clonazepam From Blood Using the High-Performance Thin-Layer Chromatography (HPTLC) Technique in Different Solvent Systems Sunil Sunil, MS*; A.K Jaiswal, PhD
7:30 pm – 9:00 pm	L38	The Postmortem Distribution of the Synthetic Cathinone MDPHP in a Fatal Intoxication Case Andrea Costantino, MD*; Emma Croce, MS*; Alexandra Dimitrova, RF*; Fabio Vaiano, PhD*; Ilenia Bianchi, PhD; Vilma Pinchi, PhD; Martina Focardi, MD
7:30 pm – 9:00 pm	L39	The Validation of an Analytical Method for the Quantitation of Xylazine in Human Hair Andre Sukta, MSFS*

Thursday

Annual Lectureship in Toxicology

8:00 am - 8:15 am		Welcome & Introductions
8:15 am – 9:15 am		Invited Lectureship Michael Baumann, PhD National Institude on Drug Absue Intramural Research Program
9:15 am – 9:45 am	L40	An Update on Standards Development Activities in Forensic Toxicology Marc LeBeau, PhD*
9:45 am – 10:00 am	L41	Smith vs. Arizona and Strategies to Support the Admissibility of Toxicology Testimony: Don't Stop Reading at Page 18 M.J. Menendez, JD*; Barry Logan, PhD*
10:00 am – 10:15 am		Break

Postmortem Toxicology and Drug Adulteration

10:15 am – 10:30 am	L42	Beyond the Green Thumb—The Role of Technology in a Case of Suicide by Pesticide Poisoning Luca Diani, MD*; Giada Rovito, MD*; Laura Camilla Gasparini, MD; Irene Pradelle, MD; Matilde Ruju, MD; Donata Favretto, MS; Negar Eftekhari, PhD; Carmela Vaccaro, MS; Matteo Marti, MS; Margherita Neri, MD, PhD
10:30 am – 10:45 am	L43	Comparisons of Blood, Vitreous Fluid, and Urine (When Available): Drug Screen Findings in Over 100 Cases Laureen Marinetti, PhD*

10:45 am – 11:00 am	L44	The Determination of Measurement Uncertainty of Non-Routine Measurements in Forensic Toxicological Casework
		Ingrid Bosman, PhD*; Dick-Paul Kloos, PhD; Camille van Dijk, MS; Ivo Alberink, PhD
11:00 am – 11:15 am	L45	Evaluating the Pharmacokinetics of Xylazine in Humans: A Paired Forensic and Clinical Model
		Alex Krotulski, PhD*; Sara Walton, MS; Brittany Chapman, BS; Patricia Martinez,
		MD; Aidan Hampson, PhD; Jyothi Polackal, BS; Deborah Olabisi, MD; John Nguyen,
		BSN; John Broach, MD; Brianna Stang, MS; Alyssa Reyes, MS; Barry Logan, PhD
11:15 am – 11:30 am	L46	Paired Toxicology Assays for the Quantitation of Medetomidine and the
		Differentiation of Dexmedetomidine and Levomedetomidine
		Sara Walton, MS*; Brianna Stang, MS; Alex Krotulski, PhD; Sherri Kacinko, PhD;
		Barry Logan, PhD
11:00 am - 1:00 pm		Break

Multidisciplinary Session: Pathology/Biology and Toxicology

1:00 pm - 1:15 pm	L47	Two Fatalities Involving Hydroxychloroquine Teresa Gray, PhD*; Jennifer Ross, MD; Marianne Beynon, MD
1:15 pm - 1:30 pm	L48	An Unexpected Fatal Methadone Ingestion in a Child Jordan Taylor, MD*
1:30 pm - 1:45 pm	L49	A Toxicological and Pathological Re-Evaluation of Media-Reported Mitragynine (Kratom) Deaths in Florida Marilyn Huestis, PhD*; Karl Williams, MD
1:45 pm - 2:00 pm	L50	Endogenous Carbon Monoxide Due to Hemolytic Anemia: A Forensic Red Herring Orianna Thomas, MSFS*; Sandra Bishop-Freeman, PhD
2:00 pm – 2:15 pm	166	Drug-Related Deaths in the Elderly: A Five-Year Overview of Western Michigan Abigail Grande, MPH*; Gemma Harkin, MPH; Bo Collins, MPH; Amanda Fisher-Hubbard, MD
2:15 pm - 2:30 pm	167	Fatal Intoxications vs. Congenital Cardiac Disorders in Sudden Death: Where to Draw the Line? Alexandra Dimitrova, RF*; Simone Grassi, MD; Fabio Vaiano, PhD; Vincenzo Arena, MD; Oscar Campuzano, MD; Sabina Strano Rossi, PhD; Ramon Brugada, MD; Antonio Oliva, MD, PhD
2:30 pm – 2:45 pm	168	Illicit Drug Deaths in Decedents Over 60 Years of Age in the City and County of San Francisco From 2020 to 2024 Ellen Moffatt, MD*; Luke Rodda, PhD; Anson Tsang, MS
2:45 pm – 3:00 pm	169	Sodium Azide/Nitrite Suicides in the Netherlands Between 2015 and 2022 Karen van den Hondel, PhD*; Dominique van Pelt, MS; Lizanne Schweren, PhD; Manon Ceelen, PhD

3:00 pm – 3:15 pm	170	Fatal Drug Intoxication in the Pediatric Population of El Paso, Texas Romina Malerba, MD*; Alejandro Partida Contreras, MD; Adam Gonzalez, MD; Mario Rascon, MD
3:15 pm – 3:30 pm		BREAK
Toxicology Special Sessi	ion: Drugs	and Driving
3:30 pm – 3:45 pm	L51	Recommendations for Drug Testing in Driving Under the Influence of Drugs (DUID) and Motor Vehicle Fatality Cases—2025 Update Amanda D'Orazio, MS, D-AFBT-FT*; Barry Logan, PhD; Amanda Mohr, MS; Ayako Chan-Hosokawa, MS; Curt Harper, PhD; Marilyn Huestis, PhD; Sarah Kerrigan, PhD Jennifer Limoges, MS; Amy Miles, BS; Colleen Scarneo, MS; Karen Scott, PhD
3:45 pm – 4:00 pm	L52	New York's Drug Recognition Expert (DRE) Oral Fluid Field Certifications Jennifer Limoges, MS*
4:00 pm – 4:15 pm	L53	How High Will It Go? The Alarming Rise of Fentanyl Tolerance Ayako Chan-Hosokawa, MS*; Zachary Shaner
4:15 pm – 4:30 pm	L54	Driving Under the Influence Snapshot: Uncovering Drug Prevalence Trends in Washington, DC Kimberley Heine, MFS*; Samantha Tolliver, PhD
4:30 pm – 4:45 pm	L55	Drug Use by Drivers in Fatal Traffic Crashes Amanda Mohr, MS*; Grace Cieri, MS; James Gill, MD; Barry Logan, PhD
4:45 pm – 5:00 pm	L56	Impaired Driving Cases With Gabapentin Nicholas Tiscione, MS*; Edward Zumaeta, MS
Friday		
8:00 am – 8:15 am	L57	2024 Novel Psychoactive Substance Trends and a Comparison Against NPS Discovery Scope Recommendations Donna Papsun, MS*; Alex Krotulski, PhD; Barry Logan, PhD
8:15 am – 8:30 am	L58	Metabolic Profiling of the Semi-Synthetic Tetrahydrocannabinols (THCs), Delta 10- THC, and Delta 6a,10a-THC, Using Human Liver Microsomes and LC/MS Nathan Layle, MS*; Jonathon Bassman, MS; Marc Gregerson, PhD;
Novel Psychoactive Sub	stances	Jeffrey Williams, MS; Donna Iula, PhD
8:30 am – 8:45 am	L59	Cytochrome P450-Mediated Metabolism of Isotonitazene, a Novel Synthetic 2-Benzylbenzimidazole Opioid Madison Schackmuth, PhD*; Sarah Kerrigan, PhD (FSF Emerging Forensic Scientist Award Oral Presentation)
8:45 am – 9:00 am	L60	Metabolite Profile Commonalities of Methoxylated Fentanyl Analogs Jillian Morgan, MS*; Candice Bridge, PhD
9:00 am – 9:15 am	L61	Novel Psychoactive Substance Presence in Fentanyl/Norfentanyl-Positive Clinical Urine Specimens Theresa Meli, MS*; Jillian Neifeld, MS; Sarah Bartock, PhD

9:15 am – 9:30 am	L62	The Prevalence of P-Fluorofentanyl and Xylazine in Postmortem Fentanyl Casework: A Three-Year Retrospective Study
		Marco Ballotari, PhD*; Michael Truver, PhD; Jennifer Hoyer, MS;
		Bruce Goldberger, PhD; Chris Chronister, PhD
9:30 am - 9:45 am	L63	The Detection of Novel Psychoactive Substances in Urine Specimens From a Large United States Prison System
		Jillian Neifeld, MS*; Theresa Meli, MS; Sarah Bartock, PhD
9:45 am – 10:00 am	L64	Two Fatal Cases Involving N-Ethylpentedrone in a Secured Forensic Psychiatric Clinic
		Jeroen Roosendaal, PhD*; Ingrid Bosman, PhD; Pieter Van Driessche, MD;
		Janneke Hulshof, PhD; Bas van de Velde, MS; Theo Klein, PhD;
		Kristof Maudens, PhD
10:00 am – 10:15 am		BREAK

Alcohol & General Forensic Toxicology

10:15 am – 10:30 am	L65	Insights Into Phosphatidylethanol (PEth) 16:0/18:1 Formation and Degradation Analysis by Supercritical Fluid Chromatography-Tandem Mass Spectrometry Munchelou Gomonit, BS*; Markus Roman, MS; Britni Skillman, PhD; Michael Truver, PhD; Robert Kronstrand, PhD (FSF Emerging Forensic Scientist Award Oral Presentation)
10:30 am – 10:45 am	L66	Alcohol Extrapolation: Contentions Within the Scientific and Legal Systems Kira Bochard, MScFS*; Lynne Seborowski, JD; John Brick, PhD (FSF Emerging Forensic Scientist Award Oral Presentation)
10:45 am – 11:00 am	L67	Performing Blood Alcohol Calculations According to ASB 122 Using a Simple Spreadsheet Rebecca Hartman, PhD*; Svante Vikingsson, PhD
11:00 am – 11:15 am	L68	Drug-Facilitated Crime: A Seven-Year Review of Drug Positivity Meaghan Hessler, MSFS*; Sherri Kacinko, PhD; Barry Logan, PhD
11:15 am – 11:30 am	L69	An Investigation Into the Utility of Creatinine and the Submaxillary Gland Androgen-Regulated Protein 3B as Adulteration Biomarkers and Normalization Factors in Oral Fluid Marta Concheiro-Guisan, PhD*; Christopher McGrowder, BS; Alejandro Ocampo, MS; Mechthild Prinz, PhD
11:30 am - 1:00 pm		BREAK

Toxicology Special Session: Pediatric Toxicology

1:00 pm – 3:00 pm	L70	Postmortem Pediatric Forensic Toxicology: Children Are Not Small Adults
		Nikolas Lemos, PhD; Timothy Rorhig, PhD